Safety & Care

Your DIRECTV® Plus HD DVR has been designed and manufactured to stringent quality and safety standards. You should, however, be aware of the following important precautions for safe and optimal use of the equipment.

Meaning of symbols printed on the rear panel of the product:

- The " bolt of lightning" indicates un-insulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.
- The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

Important Safety Instructions

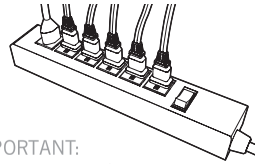
1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

To reduce the risk of fire or electric shock, do not expose this product to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

TIP

We highly recommend plugging the DIRECTV Plus HD DVR into a surge protector to prevent damage from fluctuations in your power supply.



IMPORTANT:
Be sure not to place your DIRECTV Receiver near anything WET or HOT!

CAUTION: To reduce the risk of electric shock, do not remove cover (or back).

No user-serviceable parts inside. Refer servicing to qualified service personnel.

- CAUTION: Avoid moisture to reduce the risk of fire or electric shock. The DIRECTV Receiver should not be used near water (for example, kitchen sink, bathtub, pool, damp basement). Also, never spill liquid on the receiver, and do not place vases or other vessels containing liquid on top of it.
- Ensure proper ventilation — the vent slots on the DIRECTV Receiver must be left uncovered to allow proper airflow to the unit. Blocking the airflow to the unit could impair performance or damage your receiver and other components.
- Do not stack electronic components or other objects on top of the DIRECTV Receiver. Also, do not stack the receiver on top of a "hot component" such as an audio power amplifier.
- Protect your components from power surges by connecting all the components before plugging any power cords into the wall outlet. Use of a surge protector is also recommended.
- Don't overload power outlets or extension cords, which can result in the risk of fire or shock. It's also important to use only the type of power source indicated on the marking label or in this manual.
- To prevent electrical shock, this apparatus shall be connected to a main socket outlet with a protective earthing and fully inserted.
- Avoid audio hum or interference by inserting all cable plugs firmly into their jacks. Also, place Audio/Video (A/V) cables to the sides of the TV back panel rather than down the middle once connected. Try not to coil any twin-lead cables and keep them away from A/V cables as much as possible.
- Never insert objects of any kind into any openings in the DIRECTV Receiver (other than the DIRECTV® Access Card as detailed in this manual).
- Place it on a flat, hard surface — do not operate the DIRECTV Receiver on a carpet or other padded surface.
- Always unplug your DIRECTV Receiver before moving it.
- Always unplug the DIRECTV Receiver, TV and other equipment before you connect or disconnect any cables.
- Leave the main power connector accessible to the main connector at the back of the unit in case of emergency shutdown.
- CAUTION: Electric Shock — never attempt to disassemble the DIRECTV Receiver yourself; always take it to a qualified service person when repair is required. Opening or removing covers may expose dangerous voltage or other risks, and incorrect reassembly can cause shock when receiver is subsequently used. Attempted self-repair may also void your warranty. Changes or modifications not expressly approved by the party responsible for compliance (by the warranty or by the manufacturer) could void the user's authority to operate the equipment.
- Do not drop your DIRECTV Receiver and always move it with care.
- Have your DIRECTV Receiver professionally serviced (do not attempt to service it yourself).
- Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For your information:

The identification sticker can be located underneath or on the back of your receiver.

The telecommunication network voltage used is the category number 3.

Note to Satellite Dish Installer

This reminder is provided to call your attention to articles 810 and 820 of the 2002 National Electrical Code. Refer to article 810, in particular 810-1 and 810-15, for required grounding of the metal structure of the dish antenna. Refer also to the 810-2 which, by reference to article 820, requires that the satellite dish coaxial cable shield be connected to the grounding system of the building as close to the point of cable entry as practical.

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Great TV viewing is in your hands!

A good way to begin learning about your DIRECTV® System is to familiarize yourself with the remote control. You'll find further details throughout the User Guide relating to specific functions.

Navigating 101

You'll find you can get around nearly all onscreen menus the same simple way.

- Highlight… a menu or button by using the ARROW keys (up, down, left and right).
- Choose it… by pressing SELECT while the item is highlighted.

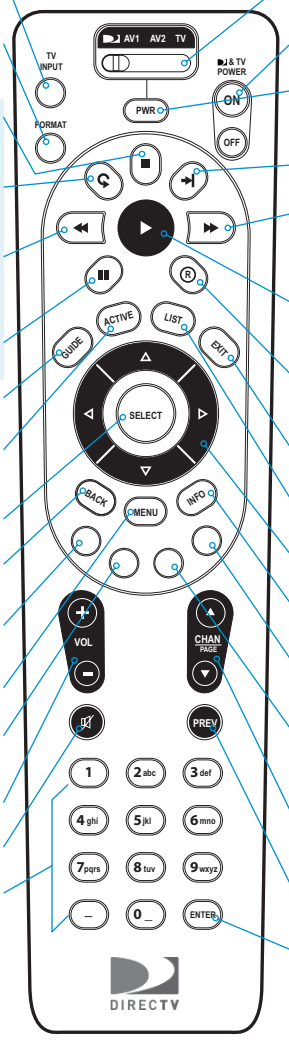
Note: Don't worry about getting stuck in a menu. You can always press EXIT to return to video.

To place batteries in your remote control:

1. Remove cover from the battery compartment by sliding it downward.
2. Insert 2 AA batteries (supplied), matching the positive (+) and negative (–) at each end.
3. Slide the cover back on to complete installation.

To program your remote control:

1. See "Programming Your Remote Control" on page 30.



TV INPUT
Changes the "source" — the piece of equipment whose signal is displayed on your TV

FORMAT
Cycles through HD resolution and screen format options

STOP
In recorded TV, stops playback and displays the MyVOD™ tab in the Playlist

REPLAY
Jumps back 6 seconds and plays video from that location

REWIND
Press up to four times to rewind at increasing speeds (recorded or live-stored video only); fifth press returns to normal play

PAUSE
Pauses current video

GUIDE
Displays the onscreen program Guide

ACTIVE
Access the DIRECTV Active™ Channel — local weather and more!

SELECT
Selects any highlighted item

BACK
Takes you to the screen you visited previously

RED
In Guide, jumps 12 hours back; other functions vary — look for onscreen hints

MENU
Displays a compact menu of settings and services

GREEN
In Guide, jumps 12 hours forward; other functions vary — look for hints onscreen

VOLUME
Raises or lowers volume

MUTE
Toggles sound volume on/off

NUMBER KEYS & DASH
Tune to a channel directly; also input numbers when needed in onscreen menus; DASH is also used to delete a show in your MYVOD list (press twice)

MODE SWITCH
Changes remote to control other equipment, for example, a DVD

DIRECTV & TV POWER ON/OFF
Turns your TV and DIRECTV Plus HD DVR on and off

POWER
Turns your DIRECTV Plus HD DVR and other equipment on and off, as selected with MODE switch

ADVANCE
Jumps ahead in a recording

FFWD
Press up to four times to fast forward at increasing speeds (recorded or live-stored video only); fifth press returns to normal play

PLAY
Play/Pause current video; press and hold for slow motion

RECORD
In Live TV, records current program; in the Guide, sets one-touch record for highlighted program

EXIT
Exits any menu and returns to last channel viewed

LIST
Displays your To Do List

ARROWS
Move highlight to items in whatever direction needed

INFO
Displays info for a highlighted or fullscreen program

BLUE
In live TV, displays the Mini Guide; other functions vary — look for onscreen hints

YELLOW
In fullscreen TV, cycles through alternate audio tracks; other functions vary — look for onscreen hints

CHAN/PAGE
In live TV, changes channel up or down; in a menu, such as the Guide, scrolls page up or down

PREV
Tunes to last channel viewed

ENTER
Activates channel number entries quickly

Keys in the shaded areas above operate your DIRECTV Plus HD DVR, or can be programmed to function with your VCR, DVD player or stand-alone DVR unit.

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Chapter 1

Getting Started

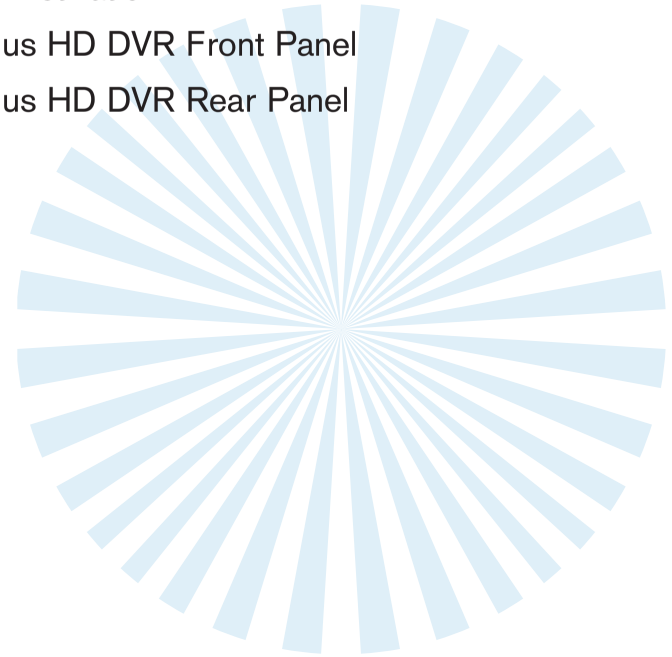
2 Welcome

2 About Your DIRECTV Plus HD DVR

3 Installation & Activation

4 DIRECTV Plus HD DVR Front Panel

6 DIRECTV Plus HD DVR Rear Panel



Welcome

With the DIRECTV® Plus HD DVR you can expect more than ever before, with access to over 225 channels, including our awesome HD selections and over 30 premium movie channels, with something to please everyone in the family. DIRECTV® HD service offers everything you'd want in your television experience: an astounding variety of channels and choices, crisp digital-quality picture and sound and one-of-a-kind sports and events. DIRECTV Pay Per View offers a handy choice in recent hit movies, plus exciting live sports, concerts and specials, even Pay Per View selections in HD. There's exclusive sports subscriptions for every taste and team. Even access to 67 music channels!

To deliver this unique programming and enhance your entertainment experience, the DIRECTV Plus HD DVR have been designed to be simple and user-friendly. You'll find that most features are self-explanatory, with onscreen directions to lead you through them.

About Your DIRECTV Plus HD DVR

The DIRECTV Plus HD DVR is a high-definition, digital video recorder, that lets you record up to 200 hours of your favorite programs* in standard or high-definition, and use pause and other video controls on live TV. You can select a specific program and set it to record once or every time it's on, or you can search for and record your favorite shows with your desired name, title or keywords. You can even record up to three shows at once.

Important

- You must subscribe to the DIRECTV DVR service in order to use the recording features.
- DIRECTV hardware, programming and DVR service available separately. For information and pricing regarding programming and DVR service, please visit DIRECTV.com.
- *Actual recording capacity varies based on type of programming being recorded. Fewer hours of HD can be recorded.

TIP

You can find additional information and the latest updates at DIRECTV.com

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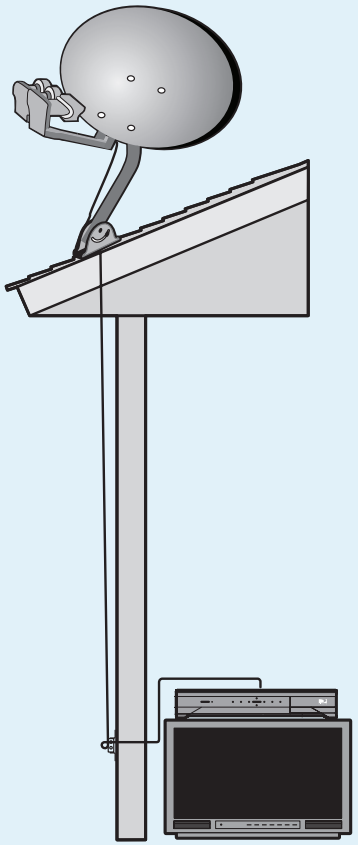

What You Can Watch

With the DIRECTV Plus HD DVR, you have access to all types of televised programming, including:

- DIRECTV high-definition and standard-definition digital programming via satellite, including local channels if offered in your area (DIRECTV service subscription required).
- Local digital TV channels, including any local HD broadcasts shown in your area, available via the DIRECTV Satellite or an off-air antenna.

Equipment You'll Need

To view HD programming, you'll need, in addition to your DIRECTV Plus HD DVR:

- A high-definition TV set (or HDTV monitor)
- A 5 LNB Multi-Satellite dish antenna—MPEG4 and Ka/Ku compatible

To enjoy select HD programming available on off-air local channels, you will also need an off-air antenna (sold separately) connected to your DIRECTV Plus HD DVR. This is possible only in cities where local broadcast stations make digital TV programs, including high-definition, available. Reception may vary based on your geographic location. Or, in some areas, you will be able to receive off-air local channels from your satellite dish.

DVR Service

Digital video recording capabilities are only fully functional with a land-based phone line connection and a subscription to DVR Service, sold separately. For information and pricing, visit DIRECTV.com/DVR.

Installation & Activation

If you or a professional installer have not yet connected your DIRECTV Plus HD DVR and other components, please see *Appendix A, Installation* at the end of this User Guide. Following installation, you will need to activate your DIRECTV service. If you have not activated already, see page 75 for more information.

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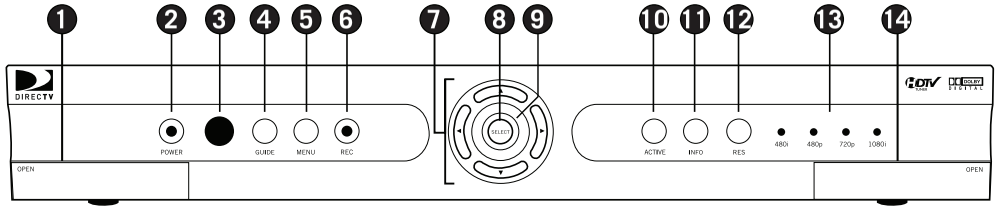
Package Contents

The following items are included with your DIRECTV Plus HD DVR:

- A/V cables (RCA type)
- Remote Control & batteries
- Power Cord
- Phone cord
- User Guide
- Component Video cable (YPbPr)
- Access card
- (2) B-band Converters (also called BBCs)

DIRECTV Plus HD DVR Front Panel



Your equipment may not look exactly like the model illustrated.

1) DOOR PANEL, USB PORT – For future use.
2) POWER – Turns your DIRECTV Plus HD DVR on or off. Your DIRECTV Plus HD DVR still records and receives messages when powered off.
3) REMOTE SENSOR – The infrared sensor picks up commands from the remote control.
4) GUIDE – Displays the onscreen program guide.
5) MENU – Brings up the Quick Menu to access settings and services.
6) RECORD – In live TV, records current program; in the Guide sets one-touch record for highlighted program.

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7) ARROWS – Move the onscreen highlight up, down, left or right.

8) SELECT – Selects the item highlighted.

9) LIGHT RING – 12 blue lights indicate the current state of the DIRECTV Plus HD DVR. Press and hold the LEFT and RIGHT arrows to dim and turn off the lights. (Repeat to brighten.)

10) ACTIVE – Displays the DIRECTV Active™ Channel—local weather and more!

11) INFO – Displays channel banner or info to a highlighted program or channel cell.

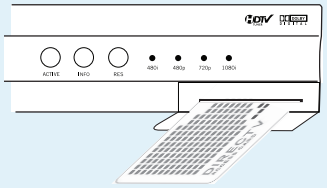
12) RES (RESOLUTION) – The RES key switches the output resolution of the DIRECTV Plus HD DVR. Each time you press the key, it cycles to the next available resolution: 480p, 480i, 720p and 1080i.

13) RESOLUTION INDICATORS – Lights indicate the current resolution setting.

14) DOOR PANEL, ACCESS CARD – The access card slot and RESET key are located behind the door panel.

Insert your DIRECTV Access Card

Locate the access card that came packed with your DIRECTV Plus HD DVR materials and insert the card, facing upward, fully into the slot.



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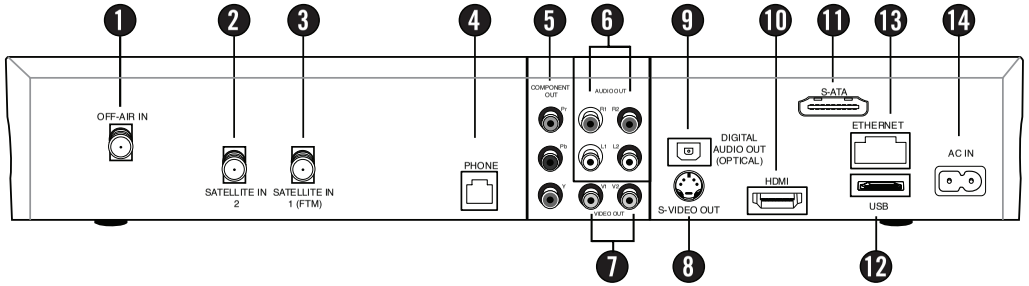
DIRECTV Plus HD DVR Rear Panel



Your equipment may not look exactly like the model illustrated.

1) OFF-AIR IN – Connect an ATSC antenna to the DIRECTV Plus HD DVR using this jack. You will be able to watch off-air digital TV broadcasts (ATSC programming) on your DIRECTV HD DVR, and these ATSC channels will appear in the Guide.

2) SATELLITE IN 2 – Use to connect the DIRECTV Plus HD DVR to the satellite dish antenna.

3) SATELLITE IN 1 (FTM) – Use to connect the DIRECTV Plus HD DVR to a second LNB on the satellite dish antenna, giving you the ability to watch and record up to three programs at once (two from the satellite, and one from the Off-Air In). If your installation includes an FTM (Frequency Translator Module), connect the FTM output to this input. FTM is a technology that allows multiple tuners to work with a single satellite input. (FTM support may require a software upgrade. Ask your DIRECTV Installer for details.)

4) PHONE – Connects the DIRECTV Plus HD DVR to a telephone wall jack. We require a land-based telephone connection to communicate periodically with your DIRECTV Plus HD DVR.

The Rear Panel may look complicated, but you probably won't use all the connections.

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Connect video, audio, your satellite dish, a phone line, power, and you're done!

5) COMPONENT OUT/ YPbPr (G, R, B) – Provides good HD picture quality, but not as good as HDMI. YPbPr carries only picture information, not sound; use it along with a digital audio connection or AUDIO (L/R red/white) jacks.

6) AUDIO (R-Red and L-White) – Audio cables offer better sound quality than RF coaxial cables. You can connect a second set of audio cables to another component, such as a VCR or stereo.

7) VIDEO (Yellow) – Provides good picture quality for standard-definition TV. Connect the second RCA-type composite VIDEO jack to another device, such as a VCR. You must also connect the AUDIO cables when using the VIDEO connection.

8) S-VIDEO OUT – Provides the best picture quality for standard-definition TV, better than VIDEO RCA-type jacks. If your TV has an S-Video jack, use it along with the AUDIO jacks (S-Video only carries picture information, not sound) to connect to your TV. (Cable sold separately.)

9) DIGITAL AUDIO OUT (OPTICAL) – Provides digital-quality audio signal. (Cable sold separately.)

10) HDMI – Provides the best quality HD picture (better than YPbPr/component video). The HDMI also provides audio, for a high-quality, "one-cable" solution. (Cable sold separately.)

11) S-ATA PORT – For future use.

12) USB – For future use.

13) ETHERNET (RJ45) – For future use.

14) AC POWER INLET – Connects the DIRECTV Plus HD DVR to an electrical outlet. We recommend you use a surge protector to safeguard your DIRECTV Plus HD DVR from power spikes.

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Chapter 2

What's On

11 Watching TV

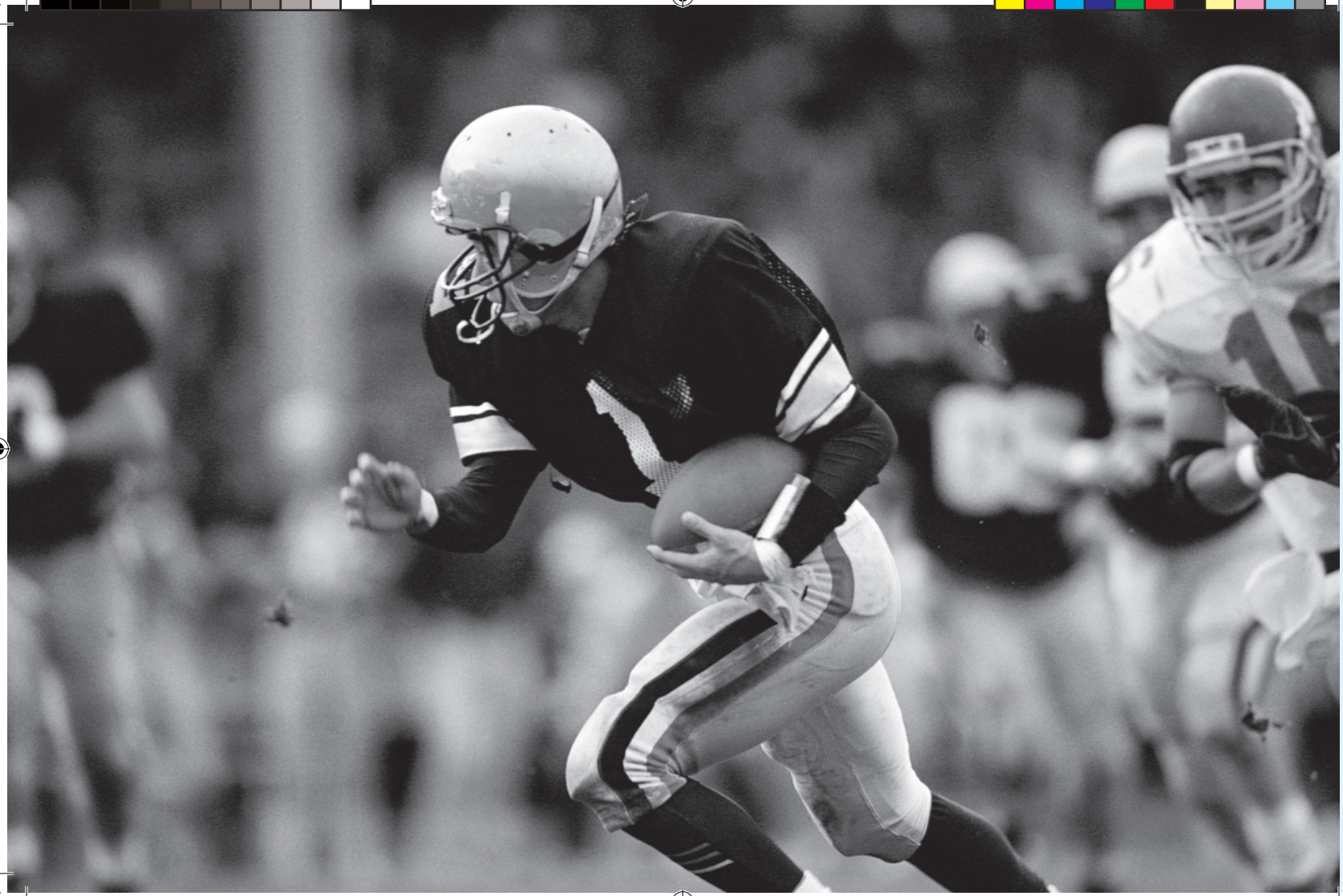
17 The Guide

18 The Mini Guide: Program Listings While You Watch TV

19 Recording Programs: A Great Way to Watch Your Favorites

21 Pay Per View: The Latest Movies, 24 Hours a Day

22 The Playlist: Watching Your Recorded Programs



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TIP

Use the Channel Lineup (included in your Welcome package) to get familiar with our channel numbers.

Watching TV

Now that everything's set up, you're ready to grab your remote and start surfing!

With the MODE switch to the left (under the DIRECTV logo), press PWR. To access the channel of your choice, simply key in its numbers on your remote (the channel will appear in a second or two, or press ENTER after the numbers and it will appear right away). You can also navigate to different channels through the Guide, described in detail later in this chapter. Keep in mind, either way, you'll only be able to access those channels in your chosen DIRECTV® programming package. For a list of the channels available in the DIRECTV programming packages, visit DIRECTV.com.

Use the black keys on the left side of your remote control to adjust volume up or down (VOL) or mute the sound (MUTE). The black keys on the right side can take you to the next channel numerically up or down (CHAN), or jump to the previous channel you watched (PREV).

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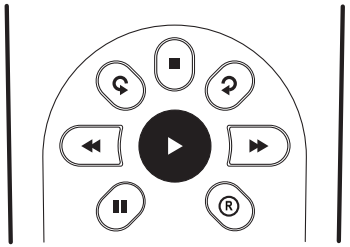
DIRECTV Plus HD DVR Features in Live TV



Live Buffer: The DIRECTV Plus HD DVR saves programs to the hard drive instantly and continuously, while you watch. This "live buffer" lets you pause, rewind, fast forward or "instant replay." (Note: You cannot fast forward during live TV until you pause or rewind a program.) If you start watching a program late, even if it is not set to record, you can back up to the beginning (up to 90 minutes) using REWIND, as long as you haven't changed channels since the program started.

Cruise Controls: Use the PAUSE, FFWD, REWIND, REPLAY, RECORD and ADVANCE keys to control your viewing time. Pressing FFWD or REWIND multiple times lets you increment the speed at which you cruise through a program. Pressing and holding PLAY shows the program in slow motion. If you press FFWD while a program is paused, the program is displayed in frame-by-frame.

When you use Cruise Control keys, a "control bar" shows you where you are in the program, the start and end time of the program, how much of the program has been stored and the program title.

If you are viewing a screen with a TV Window, such as the Guide or an Info screen, icons are displayed in the window to identify the current state (e.g., playing, paused, fast forward, etc.).

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DIRECTV Plus HD DVR Features in Recorded TV

Recorded programs can be found in the MyVOD tab on the Playlist screen. To view the Playlist, press LIST. To return to live TV, press EXIT.

Cruise Controls: The PAUSE, FFWD, REWIND, REPLAY, RECORD and ADVANCE keys work with recorded programs just as they do with live TV. Pressing STOP while you're watching a recorded program stops playback and displays the MyVOD tab on the Playlist screen.

When you've reached the end of a recorded program, the recorder will ask if you want to delete it to make room for new programs.

For recorded programs, the control bar shows the program duration instead of the start and end times. For screens with a TV Window, icons are displayed in the window as they are for live TV. The color of the portion of the control bar that indicates the stored portion of a program is orange for recorded programs, green for live TV.

Bookmarks: "Bookmarks" are a way of keeping track of places in a program you'd like to jump to quickly. You can set Bookmarks in a recorded program by pressing PAUSE then the GREEN key. They can be deleted by pressing PAUSE, then the DASH key. You can jump to Bookmarks by pressing and holding the FFWD key to move forward, or the REWIND key to move back, or via the Quick Menu. (See Chapter 3.)

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DIRECTV
7
LA7
Sunday Football
Fav: All Chans
Mini Guide
Sun 11/20 7:14p
6:00p - 8:00p
TV-PG
Sports, Football. Host Jon Smith covers all the Sunday football excitement. CC. Live.
More Info
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The Channel Banner

Any time you tune to a channel, the Channel Banner appears across the top of the screen, displaying info on the channel and show you are currently watching:

1) **Current date & time**
2) **DIRECTV Off-air Channel** – Channel logo, number and call letters of the station you're currently viewing.
3) **Program Info** – Program title, stop and start time and rating of the current program.
4) **Info Panel** – Displayed when you press INFO on your remote. Contains the program description and other information. Press SELECT on the More Info button to see additional options.
5) **Current Favorites** – Favorite Channels list currently in use.
6) **Audio options** – A "filled in" icon indicates alternate audio options are available. A "hollow" icon, no alternate audio options are available.
7) **Messages** – A "filled in" icon indicates new DIRECTV messages in Caller ID & Messages. A "hollow" icon, there are no new or unread messages.
8) **Parental Controls** – Parental Controls lock status. Three icons: Locked ("filled-in" lock icon), unlocked ("hollow" unlocked icon) and temporarily unlocked ("filled-in" locked icon).
9) **Button Hint** – Tells you that you can see the Mini Guide by pressing the BLUE key on the remote.

Music Channels

Your DIRECTV service includes dozens of enjoyable, continuous music channels with something for every taste. Tune to these just as you would to any channel. You'll see a special Channel Banner that initially displays the channel description (for example, "Real Jazz," "Nashville!"). As each song is played, its info will appear in the banner, including song title, artist and record company.

HR20 Book.indb 15 5/8/06 12:25:29 PM

Red Slippers

Wed 7:14p | 6:00p - 8:00p | PG-13

Movie, Drama (2002) Joe Macauley, Danielle Lyful, Kat Osata. Young woman goes on a quest to find the man of her dreams. (AC, AL), CC, PPV.

Current Guide: All Channels — Press MENU

Wed 12/15	7:00p	7:30p	8:00p
102 PPV	Red Slippers		Quiet Time
103 PPV	The Fiesty Black Cat		
104 PPV	My Red Bag	Beach City Fun	
105 PPV	Helicopter Cops		
107 PPV	Sierra Quest		
109 PPV	World News		Command Zero

The Guide

Overview of the DIRECTV Advanced Program Guide®

The Guide displays listings of current and upcoming programs for up to 14 days in advance. Find out what's on (now or later), change the channel, search for and purchase a pay per view movie or event, or search for a program you're interested in.

Icons you may see in the Guide:

- LB – Broadcast in letterbox (16:9 widescreen) format
- – All Day Ticket Pay Per View showings (pay once, watch all day)
- – Scheduled to Record
- – All episodes scheduled to record (Series Link™)
- – Program matches a Search, set to autorecord
- – Currently recording
- HD – HD program
- – Dolby Digital audio available

Getting Around in the Guide

Press the GUIDE key on your remote, then choose how you want to filter the Guide (or press GUIDE twice to skip the filter). Select All Channels, or channels in a specific category.

Moving through the Guide is simple:

TIP

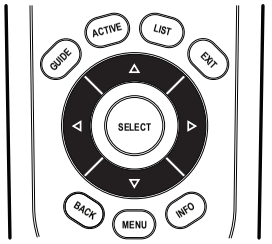
Press the GUIDE key twice to skip the Channel Categories screen.

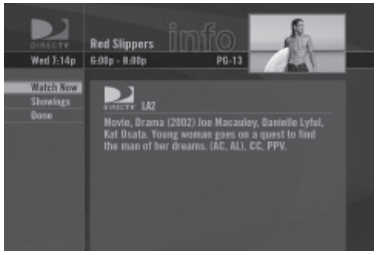
TIP

You can find additional information and the latest updates at DIRECTV.com

HR20 Book.indb 17 5/8/06 12:25:39 PM

- The UP, DOWN, LEFT and RIGHT arrow keys move you through listings and time slots. Highlight a program or channel cell to view its description.
- Use the CHAN key up or down to scroll a full page.
- Press the RED or GREEN keys to move forward or back in time.
- To tune to a program that is on now, highlight the program and press SELECT. Selecting a future program displays program information.
- Press INFO when you've highlighted a show in the Guide to view a more in-depth description and options. Pressing INFO when you've highlighted the channel name displays the channel's listing for up to 14 days.
- Press SELECT when you've highlighted a channel cell (far left) to view that channel in the TV window.
- Press MENU to see Guide options, change your Favorites list, or jump to a desired date and time.
- Press RECORD to record the program.




info
Red Slippers
Wed 7:14p
6:00p - 8:00p
PG-13
Watch Now
Showings
Done
LA2
Movie, Drama (2002) Joe Macauley, Danielle Lyfal, Kat Osata. Young woman goes on a quest to find the man of her dreams. (AC, AL), CC, PPV.

The Mini Guide: Program Listings While You Watch TV

The Mini Guide is a special version of the Guide that displays only one channel at a time, and appears over full-screen TV. To display the Mini Guide, press the BLUE key on the remote while watching TV. Just as you can with the Guide, you can scroll through channels and times, set programs to record, access program info, and other Guide features

HR20 Book.indb 18 5/8/06 12:25:44 PM

Recording Programs: A Great Way to Watch Your Favorites

Recording is a great way to see your favorite programs on your schedule. You won't miss your favorite series because it moved to a different day or time, or miss your team's playoff game because you had to work late. Just set a program to record and your DIRECTV Plus HD DVR will save it for you to watch later. To watch recorded programs, use the Playlist feature. (See The Playlist on page 22.)

To schedule a program for recording with specific options:

1) Highlight a program that interests you and press INFO.
2) Highlight and select Record. A screen is displayed where you can set record options for that program. Follow the onscreen instructions to set the program to record as you wish.
3) Select the Set Record button, then OK on the confirmation screen.

You can record up to three programs at once (two satellite and one from an off-air antenna). However, if a program you select to record conflicts with another recording, you will be notified of the conflict at the time and given a choice of which recording to cancel.

Don't you hate when you miss a show just because you forget it's on?

So do we.

One-Touch Record with Default Options

On any screen, you can press the RECORD key on a highlighted program to schedule it to record with default options.

- Pressing RECORD once schedules the highlighted program to record. A recording icon is displayed next to the program title to let you know it is scheduled.
- For a one-time only program:
  - Pressing RECORD again cancels the record.

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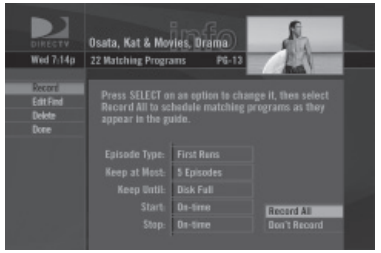
- For episodic programs:
  - Pressing RECORD a second time schedules all episodes of the program for recording (Series Link™).
  - Pressing RECORD a third time cancels the recording.

Autorecord a Search

Programs that match a Search (see Search, page 31) can be scheduled to autorecord. When the search results are displayed, simply select Autorecord from the left menu, then follow the onscreen instructions to set the record options.



Changing Record Options/Canceling a Record

Once you have scheduled a program to record, you can change the record options or cancel the recording by selecting the program in the Guide or the To Do List (press LIST, then YELLOW); then, select the Record item in the left menu, and follow the onscreen instructions to change the program's options or cancel recording completely.

You can change the following record options:

- For all programs, you can extend recording start and stop times (for example, start 1 minute before the program; stop 5 minutes after the scheduled end of the program).
- For programs with multiple episodes, you can select whether to record first run programs and repeats or just first runs, how many episodes to keep, and how long to save the recorded program.

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Recording to VCR

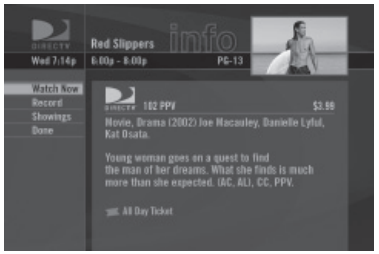
To record a program on your VCR, make sure you've connected your VCR properly to your DIRECTV Plus HD DVR, then select a recorded program from the MyVOD tab in the Playlist, set your VCR to record, and play the selected program. See your VCR User's Guide for information on how to set it up for scheduled or manual recording.

Pay Per View: The Latest Movies, 24 Hours a Day

You don't have to go out for the best and biggest movies and special events! Recent hits and events like sports, comedy and more are available 24 hours a day on DIRECTV® Pay Per View. You'll find them listed in the Guide, starting at channel 125.

Tune to a pay per view program or press INFO on a highlighted pay per view program. Select the Buy option and follow the onscreen instructions. As long as your receiver has been connected to a land-based phone line, you can use your remote to order.

You can cancel your pay per view order for any reason as long as none of the program has been viewed. Press LIST to display the To Do List. Press SELECT on the Purchase item in the left menu. Select the desired program and follow the onscreen instructions.



TIP

You can also order DIRECTV Pay Per View movies and events on the Internet at DIRECTV.com or over the phone at 1-800-531-5000. Keep in mind, though, there is an additional ordering fee for purchases placed over the phone.

Important

To obtain optimum picture quality, make sure the receiver is connected directly to the TV. Connecting the receiver to the TV through a VCR or DVD recorder is known to yield less than optimum picture quality, particularly when viewing copy-protected programming.

HR20 Book.indb 21 5/8/06 12:25:49 PM

The Playlist: Watching Your Recorded Programs

The Playlist displays all saved, recorded programs in the MyVOD™ tab.

To display the Playlist screen, press LIST on the remote. Other programs, which may include behind-the-scenes and video extras for new movie releases, DIRECTV content packages, special offers, free events and more, are saved in the Showcases tab. Check the Showcases tab frequently for exclusive video content from premium programming providers.

To quickly jump to another tab, press RED or GREEN.

The time, date and channel of each recorded program are displayed to the right of the program title. Any icon identifying program status is displayed to the left of the program title.

Highlighting a program title displays the program description, just as in the Guide.

Episodic (Series Link) programs appear in the list in groups. For example, if you record a weekly comedy series, that series is shown in the list by its name, and the episodes for that series are saved in a group under that name. You can press SELECT on the series name to display all the episodes that have been recorded. Programs recorded as the result of a Search are also saved under a group, where the name of the group is the Search name. The number of new (not viewed) programs and total programs for each group are displayed to the right of the group name.

If you press SELECT or INFO on a program under the MyVOD tab in the Playlist, an Info screen is displayed for the program that lets you update how long the program will be kept or delete the program.

Playlist
Red Slippers
Wed 7:14p 1hr 30 min Expires 12/18 PG-13
Movie, Drama (2002) Joe Macauley, Danielle
Lyful. Young Woman goes on the ultimate quest
to find love and adventure.
Tab Left Tab Right
To Do Keep
My VOD
Showcases
Disk Space 36% Available
Red Slippers Wed 12/15 6:00p 501 HBO
Sierra Quest 2 New / 5 Total
Cooking with Pizzaz Sat 12/11 8:30p 154 PPV
Beach City Fun Fri 12/15 8:30p 501 HBO
Command Zero Fri 12/15 8:30p 2 LA2
Young Moriarty Fri 12/15 8:30p 9 LA9

TIP

For a list of icons you may see in the Playlist, turn to the inside back cover of this User Guide.

HR20 Book.indb 22 5/8/06 12:25:50 PM

Disk Space Bar

The MyVOD screen displays a Disk Space bar that shows the approximate amount of space available on your disk at any given time. The Disk Space bar shows programs you have designated Keep until I Delete in blue, programs subject to expiration in light blue, and the remaining unused disk space that is available for recording in black.

HR20 Book.indb 23 5/8/06 12:25:52 PM

Chapter 3

Quick Menu

27 Using the Quick Menu

27 Help & Settings

29 My VOD

29 Audio Options

30 Category Sort

31 Pay Per View

31 Search

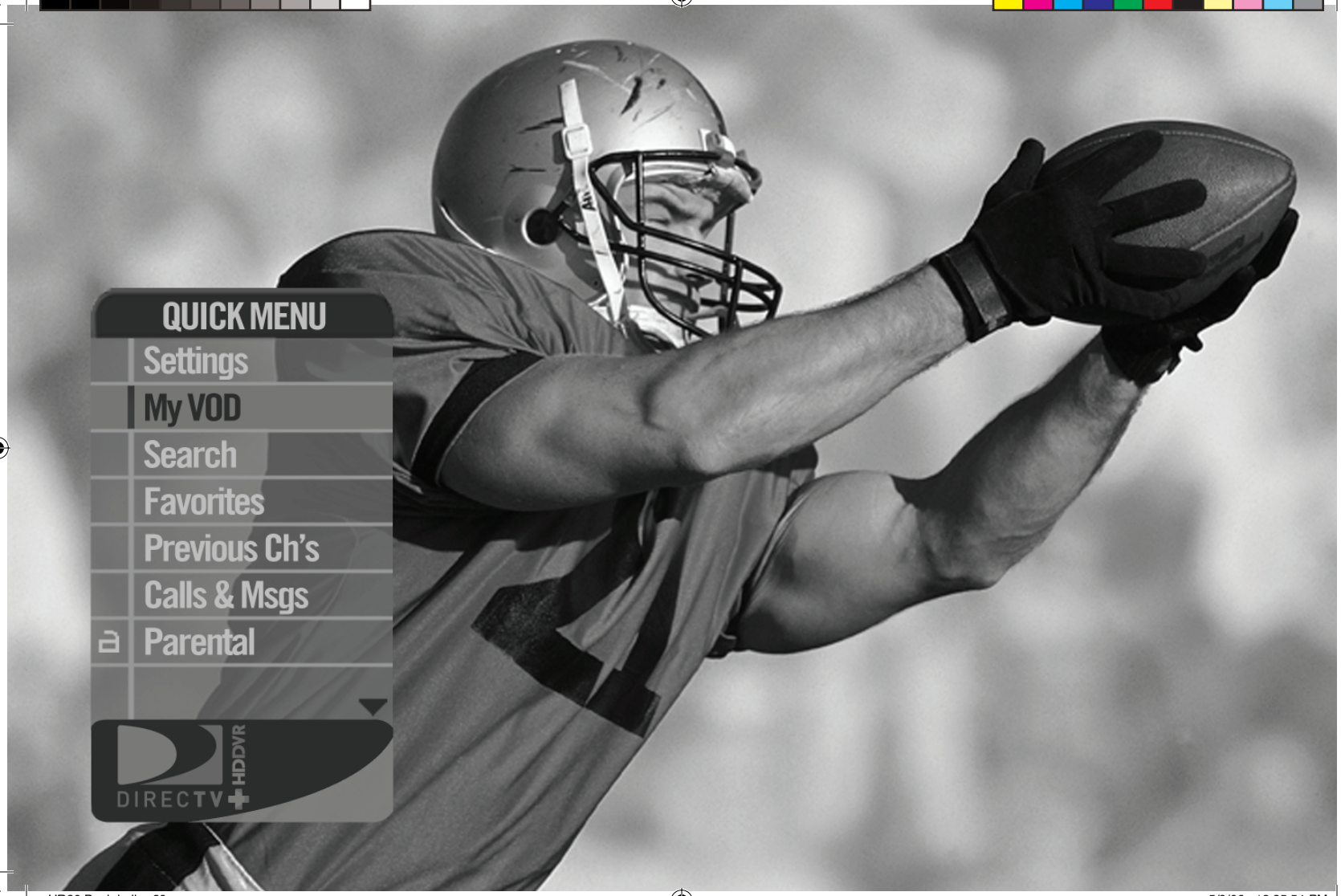
32 Date & Time

32 Favorites

33 Caller ID & Messages

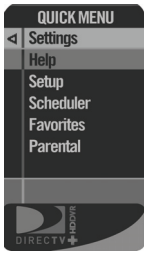
34 Parental Controls

37 Quick Menu Features for Recording


QUICK MENU
Settings
My VOD
Search
Favorites
Previous Ch's
Calls & Msgs
Parental
DIRECTV
HDDVR

Using the Quick Menu

Press MENU on your remote to easily access DIRECTV features. Once the Quick Menu is displayed, use the UP and DOWN arrows to highlight a desired menu item, then press SELECT to access that item. Some menu items will display a submenu, others will take you directly to a new screen. To remove the Quick Menu at any time, press MENU again. The features in the Quick Menu change as needed to display only the most helpful features at any time. For example, when the Quick Menu is displayed over the Guide, it displays special features to help you with the Guide.



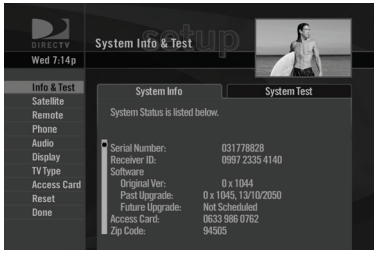
Help & Settings

Selecting Help & Settings in the Quick Menu displays a submenu of items that lets you customize, adjust and keep track of your DIRECTV viewing experience.

Help

The Help item in the Quick Menu displays a list of help topics and Frequently Asked Questions.

Setup



The Setup item in the Quick Menu displays the Setup screen, where you can access the Info & Test, Satellite & Antenna Setup, Remote Setup, Audio Setup, Display Setup, Access Card and System Reset screens.

Info & Test: The System Info option lets you view the current system information. The System Test option lets you run a test on the tuner, access card, receiver ID and phone line.

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Sat & Ant (Satellite & Antenna): This option is useful if your DIRECTV® Plus HD DVR has lost signal strength, or you need to realign your satellite dish or setup an off-air antenna. *(See "Receiving Local 'Off-Air' Broadcast Channels on page 76.)*

Remote: Use this option to setup your remote to control your TV and other equipment.

Audio: The Audio option in Setup lets you make lasting adjustments to settings such as language and Dolby Digital. To make temporary adjustments, use the Audio Options item in the Quick Menu.

Display: This option lets you change display settings such as native mode, screen format, bar color, the Channel Banner display time, the language in onscreen menus, time zone (for the clock) and screen centering.

TV Type: The TV Type option is where you can set your TV's aspect ratio and resolution.

Access Card: Follow the onscreen directions to replace your access card. You will need your old and new access cards to complete this process. (Note: DIRECTV will provide new access cards and instructions when necessary.)

Reset: From here you can restart the receiver, reset to factory defaults, or reset everything.

Scheduler

This feature gives you an overview of and access to all the programs you've set to autorecord or purchase.

Favorites

Check the current status of your Favorites list(s) by clicking here, and make changes if you like. See page 32 for more details.

HR20 Book.indb 28 5/8/06 12:26:09 PM

What is 5.1 Audio?

It's 5 channels of audio for theater-style sound, plus a subwoofer for heart-pounding bass.

Go ahead. Try this at home.

Parental Controls

Check the current restrictions of your Parental Controls by clicking here, and make any adjustments. See page 34 for more details.

My VOD

This option displays a submenu that lists recorded programs, and also gives you access to the Playlist screen, where you can view and edit the list of recorded programs and see DIRECTV Showcases of special programming. (See "The Playlist" on Page 22)

Audio Options

Some programs have alternate audio available (such as other language tracks or Dolby Digital). This option only appears in the Quick Menu over Live TV when the current program has alternate audio. You can set the default so that whenever a program has alternate audio available, it automatically plays this audio, or you can change the alternate audio temporarily for the program you are watching. In either case, press MENU while in Live TV, then:

To change the default audio, from the Quick Menu, select Settings, select Setup, then select Audio in the left menu and follow the onscreen instructions.

To temporarily change the audio, from the Quick Menu, select Audio Options, then select the audio track you prefer. Once the program is over or you change the channel, the audio will change back to the default setting.

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Dolby® Digital

The recommended audio format for HDTV is Dolby* Digital.

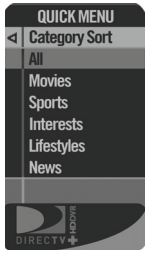
Your DIRECTV Plus HD DVR is capable of reproducing 5.1-encoded audio: five discrete channels of full-range digital audio, plus one channel of low-frequency (subwoofer) audio, for use by A/V receivers capable of decoding the 5.1-channel signal. The audio signals are broken into left-front, center, right-front, left-rear, right-rear and low-frequency channels. The result, when your DIRECTV Plus HD DVR is connected to a compatible Dolby Digital A/V receiver and 5.1 channel speaker setup, is an experience that gives you much of the dynamic range, 360-degree imaging and sonic excitement of a real theater.

Not all TV programs deliver 5.1 channel signals, and not all programs are broadcast using Dolby Digital for DIRECTV programming. Programs using this high-quality audio standard are indicated by the words Dolby Digital in the program description in the Channel Banner (see page 15) and Guide (see page 17).

To change the Digital Audio format, press MENU, select Settings, then select Setup. Select Audio in the left menu. Highlight the Dolby Digital tab and press SELECT, then follow the onscreen instructions and select from the following options:

- On: Turns on Dolby Digital audio output. (Note: True Dolby Digital is only available via HDMI or optical outputs.
- Off: Select this option to turn off Dolby Digital Audio output.

Category Sort



This feature lets you temporarily arrange the Guide to list only programs in a particular category such as Movies, Sports or News. This option only appears in the Quick Menu over the Guide.

Note

* Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

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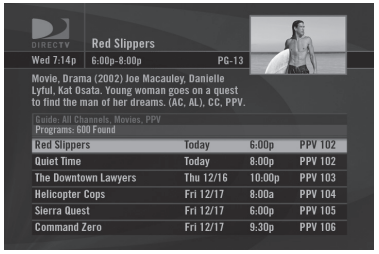

Red Slippers
Wed 7:14p
6:00p-8:00p
PG-13
Movie, Drama (2002) Joe Macauley, Danielle Lyful, Kat Osata. Young woman goes on a quest to find the man of her dreams. (AC, AL), CC, PPV.
Guide: All Channels, Movies, PPV
Programs: 600 Found
Red Slippers Today 6:00p PPV 102
Quiet Time Today 8:00p PPV 102
The Downtown Lawyers Thu 12/16 10:00p PPV 103
Helicopter Cops Fri 12/17 8:00a PPV 104
Sierra Quest Fri 12/17 6:00p PPV 105
Command Zero Fri 12/17 9:30p PPV 106

While in the Guide, from the Quick Menu, select Category Sort. To further narrow your search, select the category you want, then select a subcategory if you wish.

To quickly move through the Category Search results, use the RED or GREEN key on your remote to advance or reverse in 90-minute increments. Press GUIDE to return to the regular Guide, or EXIT to return to live TV.

Pay Per View

This option enables you to check out DIRECTV Pay Per View listings by category. This option only appears in the Quick Menu over the Guide.

While in the Guide, press MENU, then select Pay Per View. You will see three choices for sorting the listings. Choose All to display all current pay per view programs. Movies will give you listings of all current movies available. Pick Special Events to see specific events such as sports, comedy specials and more. The Guide will display only programs that match the selected choice.

Search

Find by Title
Wed 7:14p
Press SELECT on a few letters of the title until you see it listed. Press RIGHT to highlight the list, then select the program to view showcases.
DIRECTV
DIRECTV Basics
DIRECTV Channel
DIRECTV Information
DIRECTV PARA TODOS ESTE MES
DIRECTV Pricing and Packaging Info
DIRECTV Sports Schedule

Would you like to locate a particular program, movie or sports event you want to see — even shows starring a favorite actor, or games with your favorite team? Search offers some easy ways to spot just what you want to watch.

Press MENU, then select Search. You can find a program by Title, Person, Keyword or Channel. Your Persona and Keyword searches will be quicker if you narrow your search by selecting subcategories; just follow the onscreen instructions. Once you've found what you're after, all you have to do is highlight and

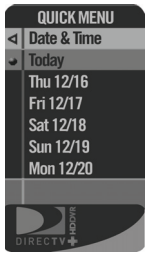
Note

Keep in mind, when you use the Search feature, only those programs in the Guide slated to air within the number of days of programming supported by your receiver will appear on your list.

HR20 Book.indb 31 5/8/06 12:26:20 PM

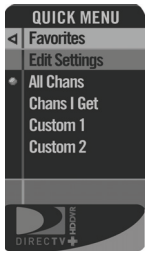
select the title to display information about the found item. If you'd like to repeat a previous search, select Recent Searches, then select your search to view matching programs.

Date & Time



This option gives you a convenient way to jump several days ahead in the Guide, without having to scroll through pages of programs.

Favorites



Favorites allows you to set up special, customized Guide that shows only those channels you choose. So you can have easy access to the channels you like best, or perhaps a grouping of family channels just for the kids.

When you're using a Favorites list, the Guide will only display those channels you've chosen — and you'll also only see those channels when you change channels using CHAN UP/DOWN on your remote.

Keep in mind, no matter what Favorites list you're currently using, you can still always access any channel you receive by keying in its channel number on your remote. You can also edit or delete a list at any time by returning to Favorites and editing your list(s).

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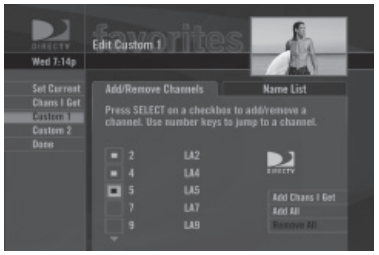
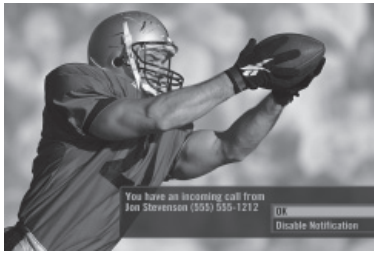


Channels I Get

In addition to displaying all channels or creating lists of favorite channels, you can also set your DIRECTV Plus Receiver to display only the channels that are in your current subscription package.

To see the channels you receive, select *Ch's I Get* from the left menu of the Favorites screen. To set *Ch's I Get* as your current channel list, select the *Set Current* menu item from the Favorites screen, then change the Current Favorites option to *Ch's I Get*.



Caller ID & Messages

This feature lets you receive important messages from DIRECTV about your service. Also, if you have Caller ID service*, you can also view phone calls you've received or turn call notification on or off. Press MENU to display the Quick Menu, select *Calls & Msgs*, then select *Edit Settings*. Select either *Caller ID* or *Messages* from the left menu, as desired.

Caller ID

The Call Log tab displays up to 25 recent incoming calls. Highlight and select a name to delete that listing from your log.

The Notification tab lets you turn the notification feature on or off. When the Notification option is on, you'll see a notice on your TV screen whenever a call comes in.

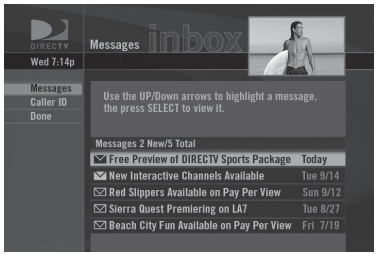
Note

** You must subscribe to Caller ID service through your local telephone company, and your DIRECTV Receiver must be connected to a phone line.*

HR20 Book.indb 33 5/8/06 12:26:24 PM

DIRECTV Messages

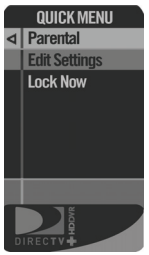
This feature lets you view a listing of current DIRECTV messages waiting for you. Simply highlight and select a message in the list to read, then you'll have the choice to keep or delete it. The messages icon will appear brightly on your channel banner whenever there's any new or unread message in your Inbox.


DIRECTV
Wed 7:14p
Messages
inbox
Messages
Caller ID
Done
Use the UP/Down arrows to highlight a message, the press SELECT to view it.
Messages 2 New/5 Total
Free Preview of DIRECTV Sports Package Today
New Interactive Channels Available Tue 9/14
Red Slippers Available on Pay Per View Sun 9/12
Sierra Quest Premiering on LA7 Tue 8/27
Beach City Fun Available on Pay Per View Fri 7/19

Parental Controls

Parental Controls enables parents to place certain restrictions on just who's watching what, and require a passcode to view restricted programming. Whether it's for mature content or spending amounts, you're always able to keep limitations where you want them for the whole family.

Press MENU to display the Quick Menu, SELECT *Parental Controls*, then *Edit Settings*, and you'll see the current status showing any restrictions. The system default is "unlocked" for all categories.



Ratings

Here you can set rating limits for Movies and TV:

1) SELECT *Ratings*.
2) Highlight the desired tab using the ARROW keys and press SELECT. Note: You can also use RED or GREEN to cycle tabs.

Movies

Highlight and select the *Movies* tab, then set the overall rating limit you wish to impose. Brief descriptions of the ratings appear for your guidance.

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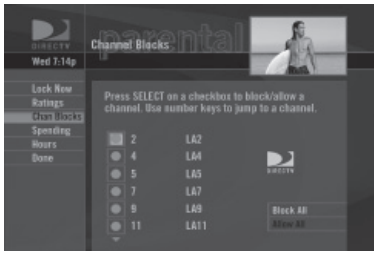
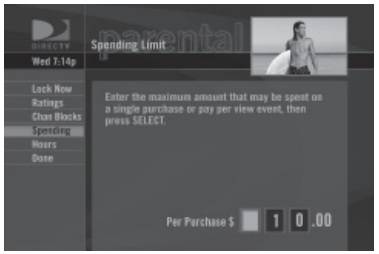
TIP

For ratings limits and channel blocks, as well as most other checkbox-type items, pressing SELECT toggles the item on and off when setting them up.





TV Programs

SELECT the *TV* tab, then highlight and select the TV rating you desire. You can also set ratings for particular content (for example, Fantasy Violence, Dialogue), each of which is described when highlighted.

Other Shows

To block programming that has no rating — such as news and sports — select the *Other* tab.

Channel Blocks

You can block viewing of a certain channel or channels from this menu.

SELECT *Chan Blocks* in the left menu, then scroll down the channel list to SELECT those you wish to block, or key in channel numbers for quicker access. Use Block All or Allow All to save time if you wish to affect a large number of channels.

Spending

From the left menu, SELECT *Spending*, then set your preferred spending limit for any single pay per view purchase. Simply key in the amount using the numbers on your remote.

Hours

From the left menu, SELECT *Hours*, then set your preferred hours during which TV can be viewed. You can set hours based on "school nights" and weekend nights—Monday-Thursday, Friday-Saturday, and Sunday.

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Now, lock it

Once you've set the restrictions you want, choose Lock Now from the left menu. You'll be directed to create a passcode (which you'll want to make easy enough to remember, but hard enough that the little ones won't guess it!). This passcode will be your entry to unlocking and adjusting limitations in the future.

An onscreen message will appear whenever anyone tries to tune to a channel or program that has been restricted, or attempts to spend or watch beyond limitations set. He or she will not be allowed to proceed without the passcode. Using your passcode, you can easily override the limits.

Let me in...!

Temporarily or permanently unlocking a restriction is easy. To temporarily unlock a particular program:

1) When any controls are currently activated, Unlock Now will appear if you try to tune to a restricted program.
2) Select Unlock Now and enter the password.

For more unlock options:

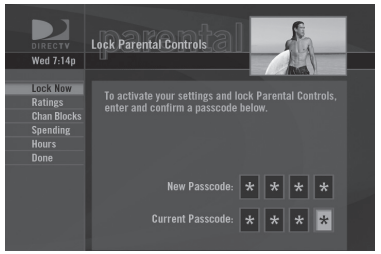
1) Press MENU, then SELECT Parental Controls.
2) Various options for removing restrictions temporarily or permanently will appear. Select one and enter your password.

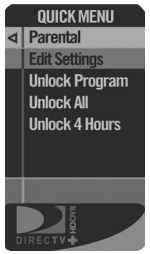
Note: If you have Parental Controls set and temporarily unlocked, turning the receiver power off will re-lock the box.

Making multiple entries aimed at guessing the passcode is discouraged by a time delay; each invalid passcode entered lengthens the delay for subsequent entry by one second.

Note

Don't use obvious numbers, like birthdays or addresses, for your passcode. Your kids are smarter than you think!





TIP

The Parental Control icon in the Channel Banner will tell you if the receiver is locked, temporarily unlocked, or unlocked.

Locked **Unlocked** **Temporarily Unlocked**

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To change your passcode at any time:

1) Press MENU, SELECT Parental Controls, then Edit Settings.
2) Scroll down to Passcode and press SELECT.
3) Enter your old password, then enter a new one twice to confirm.

Quick Menu Features for Recording

The Quick Menu includes special recording features over certain screens.

Quick Menu over the Playlist screen:

- List by... lets you sort how the programs appear in the list.
- Mark & Delete lets you mark programs and delete them from the MyVOD™ screen.
- Open/Close All lets you open and close all groups at once.

Quick Menu over recorded TV:

- Keep... lets you change how long a recorded program will be kept on disk.
- Bookmarks lets you jump to bookmarks that have been set in a recorded program you are currently viewing. (See page 13.)
- MyVOD lets you view a list of recorded programs, or access the MyVOD™ screen.

Quick Menu over a Record Options screen:

- Record Defaults lets you set the default selections for the Start, Stop, Keep and Type options.

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Chapter 4

More Info

40 Troubleshooting

50 Limited 90-Day Warranty

54 Product Information

55 DIRECTV PROTECTION PLAN

57 FCC Customer Information

60 TERMS AND CONDITIONS FOR USE OF SOFTWARE (“TERMS”)

Troubleshooting

Many problems can be corrected by performing a simple reset of the DIRECTV® Plus HD DVR. If you experience image freezes, audio freezes or blank screen, or the system won't respond to front panel button or remote control, try one of these:

- Press the red RESET button behind the access card panel door on the front of the DIRECTV® Plus HD DVR, then wait for program guide information to be acquired.
- If the problems persist, try unplugging the power cord of the DIRECTV® Plus HD DVR for 15 seconds, then plug it in again.

Running the System Test (later in this section) can also help you diagnose and solve many common problems.

You can find additional troubleshooting help at DIRECTV.com.

System Upgrades

Your DIRECTV® Plus HD DVR are able to receive upgrades or modifications to some of its features and functions. These modifications will occur automatically, usually at times when the receiver would likely be turned off. If your receiver is on when an upgrade or modification is sent, you may experience a disruption in reception for a minute or two. Your reception should return to normal after the modification is complete. Your receiver must be plugged in to AC power to receive any upgrades. Do not unplug your receiver while an upgrade is in progress. Please consult the System Info screen to check for an upgrade or modification planned by DIRECTV.

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Having a problem? Then check the following:

1. Cables and connections

2. MODE switch on your remote

3. Remote batteries

4. TV Input

5. Power

Most problems have simple solutions.

DIRECTV Plus HD DVR or TV Problems

Progress bar freezes during Satellite Data Acquisition

This may be normal. After five minutes, the screen saver is displayed. Press any key on the remote to see the progress bar again. If Satellite Data Acquisition still does not move forward, press the RESET button behind the access panel door on the front of the DIRECTV® Plus HD DVR and wait for program guide information to be acquired.

Wrong picture, blue screen, snow or black/blank picture

The DIRECTV® Plus HD DVR and most TVs and VCRs let you toggle between video sources. If you don't see the signal you think you should be seeing, try using these buttons to toggle between the signals:

- Press the TV/VCR button on the VCR remote or on the VCR's front panel.
- Press the TV INPUT button on the DIRECTV remote control.
- If problems persist, turn off all equipment that is connected to your TV, wait a few minutes, then turn the DIRECTV® Plus HD DVR back on.
- Check your connections and cables.

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Problems with Caller ID

- **You must subscribe to Caller ID service through your local phone company.**

  Also, check to be sure your Caller ID feature is turned on (see page 33).

- If you are plugging your receiver to a wireless phone jack, note that it typically does not transmit Caller ID information and you may need a special wireless phone jack to use with Caller ID service. See the user's manual that came with the wireless phone jack to see if it transmits Caller ID information. If it doesn't, either connect the phone line directly to a standard wall-mount phone jack or install a wireless phone jack that transmits Caller ID information.

DIRECTV Plus HD DVR will not turn on

- Check to make sure the power cord is plugged into the DIRECTV Plus HD DVR and the wall outlet.
- Check the wall receptacle (or extension cord) to make sure it is "live" by plugging in something else.
- Make sure the remote control is on DIRECTV mode, and press PWR (power key).
- Press TV POWER ON, then press it a second time if needed.
- Check batteries in remote control.
- Be sure remote control is pointed at remote sensor, and front of receiver is not blocked.
- Unplug the receiver. Wait five minutes. Plug it in again.

DIRECTV Plus HD DVR Turns off while playing

- Electronic protection circuit may have been activated because of a power surge. Wait 30 seconds, then turn on again.
- Unplug DIRECTV Plus HD DVR for a few minutes, then plug back in. If this happens frequently, the voltage in your house may be abnormally high or low.

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You can get a lot of information at our website:
www.DIRECTV.com

- Consider using a surge protector or line conditioner.
- If your TV turns off while playing, and other lights/appliances in your house do too, you may have blown a circuit breaker or be experiencing a power outage.
- Consult an electrician if the problem is frequent or severe, especially if other household appliances or electronics are affected.

DIRECTV Plus HD DVR turns on or changes channels unexpectedly

- An autorecord may have been activated. See page 20.
- Your TV's timer may have been activated.
- Check your TV owner's manual.

Blank screen

- Check that all components connected to the input jacks are turned on.
- Try another channel.
- Your DIRECTV Plus HD DVR may be hooked up incorrectly to the TV. Press the INFO button on the front panel of the DIRECTV Plus HD DVR to see if the channel banner appears. If it does not, check the Setup and Connections section for instructions about connecting your satellite receiver.
- Press the TV INPUT key on the remote to make sure your TV input is set to the TV input your DIRECTV Plus HD DVR is connected to.
- Press the POWER button on the front of the DIRECTV Plus HD DVR .
- Press the red RESET button behind the door on the front panel of the DIRECTV Plus HD DVR .

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Temporary loss of the satellite signal or Searching for Satellite Signal message

- Your satellite system may be experiencing rain fade, a temporary loss of the satellite signal due to unusually heavy rain clouds or rainfall. Rain fade is usually brief, lasting only as long as the heavy rain cloud condition persists.
- Your dish may be blocked. Check that something is not blocking the dish.

Partial programming loss/channels missing from the Guide/Channel is in the Guide but I can't tune to it

- Your satellite dish antenna may be incorrectly configured. Check the dish type set in your receiver's preferences and change if necessary. Press the MENU key on the remote control, then select Settings, then Setup. In the next menu, select Satellite, then Repeat Satellite Dish Setup. Follow the steps. From the Satellite Dish Type screen, make sure the proper dish type is selected (round, oval with a dual LNB or oval with a triple LNB).
- The channels might be excluded from the Favorites list currently in use. Press MENU on the remote, select Favorites, then All Channels, or enter the channel number manually.

My video and audio are out of sync.

- Try changing channels.
- Press LIST, then EXIT.
- If neither of those work, restart your DIRECTV Plus HD DVR. Press the RESET button behind the access panel door on the front of the DIRECTV Plus HD DVR. You can also press MENU, press SELECT on Settings, then SELECT Setup. Select the Reset item from the left menu and follow the onscreen instructions.

If you live in a newly built neighborhood, be sure to place your dish where it is unlikely to become blocked by a fast-growing tree.

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My DIRECTV Plus HD DVR is "frozen" on a single frame of a TV picture.

- If you are on a Pay Per View channel, watching the free portion of a program, the free portion may be completed. You must buy the program to continue watching.
- If that doesn't work, restart your DIRECTV Plus HD DVR. Press the RESET button behind the access panel door on the front of the DIRECTV Plus HD DVR. You can also press MENU, press SELECT on Settings, then SELECT Setup. Select the Reset item from the left menu, then press SELECT on Restart Receiver.

I want to turn the light ring on the front panel on or off, or dim them.

- Press and hold the LEFT and RIGHT arrows to adjust the brightness of the blue lights in the light ring on the front panel. You can dim the lights until they turn off completely. To turn the lights on, press and hold the LEFT and RIGHT arrows again.

Recorded TV Troubleshooting

A program I tried to record does not show up in the MyVOD™ screen.

- Someone else in your household may have prevented the recording, or erased the program after it recorded.
- The recording may have been canceled due to a conflict with another program with higher priority in the Prioritizer.
- Press MENU, select Settings, then Scheduler. In the left menu, select History. You will see a list of recent programs, with their recording status info.

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I wanted to record a program, but I got an error message saying it conflicted with another scheduled record. What do I do?

- Your DIRECTV Plus HD DVR can record up to two programs at once, or it can record one program while you watch another. If you exceed these limits (for example, if you try to record three programs at 8 p.m. on Thursday), you will be notified there is a conflict. You will have to decide which program you want to cancel.
- If the overlap is just a couple of minutes (for example, some networks occasionally start programs at 8:59 instead of 9:00 p.m.), try scheduling the recording manually (go to the Scheduler and select Manual) and change the start and end times appropriately.

I recorded a program, and the recording got cut off just before the end, so I missed the last bit of the program.

- Next time, try setting the end time of the recording in the Record Options so the recording ends one or two minutes later (or more, if necessary). For sporting events, you may want to try 15 minutes or more, to protect against overtime games. Some networks show program episodes several times during a week, so if you just watched a program where the last few minutes were not recorded, try scheduling it again immediately. Note that adding time to the beginning or end of a recording increases the likelihood of recording conflicts, so use time padding sparingly. (See previous question.)

A program I recorded was displayed in the MyVOD™ screen, but got deleted before I could watch it.

- When you schedule a recording from an Info screen, you can select how long your recording are kept: Until I Delete, or Until Space Needed. When you schedule a program with one-touch record, the recording defaults to Until Space Needed. Programs that are set to be kept Until Space Needed may be deleted as new programs are recorded. You can change this option for a completed recording by pressing LIST to view the To Do list, then press SELECT on the desired program. When the program's Info screen is displayed, select the Record menu item and change the options as needed.

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- If you recorded a pay per view program, but did not watch it, the time which you are allowed to purchase may have expired. To avoid in the future, check your pay per view recordings in the MyVOD™ screen for expiration dates.

I've set up an episodic recording, but now I get a bunch of reruns and multiple copies of the same program.

- When you schedule an episodic recording, you can set an option for program type: First Run, Repeats or Both. If you only want to record a program the first time it is shown, and not repeated showings, make sure you select the First Run option. This is the default for one-touch recording, so if you want to record every occurrence of a program, you need to change it using the program's Info screen. Access the program's Info screen (by pressing the INFO key when the program is highlighted in any list or the Guide), then select the Record menu item and change the options as needed.

When I am watching a recorded program, and the DIRECTV Plus HD DVR starts to record another program, my image quality deteriorates.

- Press PAUSE, then PLAY.
- Press EXIT to return to live TV, then press LIST. SELECT the program you were watching from the MyVOD™ screen and press PLAY. (You may have to fast forward back to the point where you were.)

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Remote Control Problems

Problems with the remote control

- Check that nothing is between the remote control and the remote sensor.
- Make sure the remote control is in DIRECTV mode. Slide the MODE switch on the remote to the DIRECTV position so the remote will control the DIRECTV Plus HD DVR.
- Check the batteries in the remote control. They may be weak, dead or installed incorrectly. Try replacing batteries.
- If you're entering a channel number that is less than four digits long, the receiver might wait two seconds before tuning to the channel. Press ENTER after entering a channel number to tune immediately.
- If you are trying to operate a device other than the DIRECTV Plus HD DVR that you have programmed the remote to control, make sure you first slide the MODE switch to the mode that is programmed for that device (AV1 or AV2). The indicator light for the component you're trying to control should light up when you press a valid key for that component. If it doesn't, make sure the MODE switch is in the correct position.

A remote control indicator light starts flashing.

The batteries in the remote control are running low and should be replaced soon. You may also see an onscreen message that the batteries are low. Note that when you replace the batteries, you should not have to reprogram your remote to control other devices unless the batteries have been completely dead for a month or more.

Fine-Tuning the Signal

If you self-installed your satellite dish antenna, you may have already used the Satellite Setup section of Guided Setup to find the dish-pointing coordinates, acquire and fine-tune the signal and run a system test. If you need to run Satellite Setup again, press MENU. Select Settings from the Quick Menu, then select Setup. When the System Setup screen is displayed, press SELECT on Satellite in the left menu, then select the Repeat Satellite Setup button.

With proper care and fresh batteries, the only problem you should have with the remote is remembering where you left it.

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If none of the preceding tips helped solve your troubleshooting issues, the System Test may help to figure things out.

Running the System Test

The System Test allows you to run a basic diagnostics check on your DIRECTV Plus HD DVR. If you are experiencing any trouble with your receiver, run the system test. It will also allow you to get your access card and receiver ID numbers or to initiate diagnostic procedures on your digital satellite receiver.

First make sure that:

- All connections — jacks, cables, etc. — are in place correctly (see Chapter Two, Getting Connected, for more information)
- There are batteries in the remote control, and they are working correctly
- The access card is installed in the DIRECTV Plus HD DVR.

Follow these steps to run the diagnostics system test on your DIRECTV Plus HD DVR.

1) Turn on your TV and the DIRECTV Plus HD DVR.
2) Slide the mode switch to the DIRECTV position to put the remote control in satellite receiver-controlling mode, then press MENU to display the Quick Menu.
3) Select Settings.
4) Select Setup, then Info & Test.
5) Highlight the System Test tab and press SELECT, then press SELECT on Run Test.
6) If your system does not pass the system test, check any of these potential trouble areas: cabling, pointing the satellite dish, phone connection and access card.
7) If you continue to have problems, call DIRECTV Customer Service at 1-800-DIRECTV.

You should run a system test several times before concluding that there is a problem. Occasional fluctuations in the phone line or satellite signal can give temporary false readings.

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Limited 90-Day Warranty

DIRECTV warrants your DIRECTV Plus HD DVR (Model Number: HR20) and any included accessories against defects in material or workmanship for a period of ninety (90) days after the date of purchase.

Who is Covered?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase. THIS LIMITED WARRANTY EXTENDS ONLY TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THE DIRECTV PLUS HD DVR AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. THIS WARRANTY DOES NOT EXTEND TO COMMERCIAL USERS. THIS PRODUCT IS NOT AUTHORIZED FOR USE OUTSIDE THE UNITED STATES AND ANY SUCH USE VOIDS THIS WARRANTY.

What is Covered?

Warranty coverage begins the day you purchase the product. For ninety (90) days from the purchase date, at the option of DIRECTV, the DIRECTV Plus HD DVR will be repaired or replaced with a new, repaired, refurbished or comparable product (whichever is deemed necessary) if it becomes defective or inoperative. This exchange is done without charge to you for parts and labor. You will be responsible for the cost of shipping to and from the location designated by DIRECTV. If DIRECTV cannot reasonably repair or replace the Receiver then DIRECTV may, at its sole discretion, refund the price you paid for the product or the current retail price of the product.

All products, including replacement products, are covered only for the original warranty period. When the warranty on the original product expires, the warranty on the replacement product also expires. After ninety (90) days from the date of purchase, you pay for the replacement of all parts, and for all labor charges.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Don't think of it as a 90-Day Warranty. Think of it as a three-month vacation....

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The warranty does not cover deliberate misuse.

So be nice to your DIRECTV Receivers.

What is Excluded?

Your warranty does NOT cover:

- Labor charges for installation or setup of the product.
- Installation, performance of, or repair of: audio/video cabling, telephone line, or accessory attachments used with the product.
- Product replacement because of misuse, accident, lightning damage, unauthorized repair, or other cause not within the control of DIRECTV.
- Incidental or consequential damages resulting from the product. SOME STATES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.
- Any modifications or other changes to the product, including but not limited to software or hardware modification in any way other than as expressly authorized by DIRECTV will void this limited warranty. Except in the case of hardware or software provided by DIRECTV, installing software modifications, “hacks” or utilizing service access or “back doors” will void this limited warranty.
- Reception transmission problems caused by signal conditions, telephone line, or cable or antenna systems outside the unit.
- A product that has been modified or adapted to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- A product used for commercial or institutional purposes.
- DIRECTV makes no warranty that the access connection will be a local (not long distance) phone call.

The continued provisioning of any of the programming and other services delivered through the Receiver including but not limited to television programming, show information, program guide data, and scheduling information.

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Make Sure You Keep...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this User Guide and keep both near-by. Also keep the original box and packing material in case you need to return your product.

Before Requesting Repair Service...

Please check the troubleshooting section of this guide. This may save you a call to DIRECTV Customer Care.

To Get Warranty Service...

Warranty service will be provided by DIRECTV. If you believe you need service for your Receiver, contact DIRECTV at 1-800-DIRECTV. A representative will go through a diagnostic checklist with you. If it is determined that the product needs to be returned for service or exchanged, you will receive a return authorization number. The representative will give you complete shipping details.

To Get Out-of-Warranty Service...

To obtain out-of-warranty service contact DIRECTV at 1-800-DIRECTV for information on the possibility of and any costs for repair or replacement of out-of-warranty products.

ALL WARRANTIES IMPLIED BY LAW, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY LIMITED TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., THIS EXPRESS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS AND SIMILAR OBLIGATIONS OF DIRECTV. REPAIR OR REPLACEMENT AS PROVIDED IN THIS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY. IN NO EVENT

Keep the paperwork! And just as important, remember where you keep it! You'll feel so clever if you ever need it.

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Don't despair if your warranty has expired. Service is just a phone call away....

WILL DIRECTV BE LIABLE FOR ANY AMOUNT GREATER THAN THE RETAIL PRICE OF THE DIRECTV RECEIVER. DIRECTV SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THE DIRECTV RECEIVER.

SOME STATES DO NOT ALLOW LIMITATIONS ON WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

DIRECTV, Inc.
2230 E. Imperial Hwy
El Segundo, CA 90245
1-800-DIRECTV

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Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product. *(You may have noted some of this information on page 71 when you connected the cables to your receiver.)*

Model No. _____

Serial No. _____

Purchase Date: _____

Dealer/Address/Phone: _____

Access Card: _____

Receiver ID: _____

Hardly anyone ever fills in this page.

Go ahead: Be different from everyone else.

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You might not be able to buy happiness, but you can buy peace of mind. As little as $5.99 a month. How cool is that?

DIRECTV PROTECTION PLAN

Protect your DIRECTV® System with the DIRECTV PROTECTION PLAN. For a low monthly fee, the DIRECTV PROTECTION PLAN covers the components of your DIRECTV System, giving you peace of mind and comprehensive support to ensure that you and your family enjoy nonstop DIRECTV® entertainment.

DIRECTV PROTECTION PLAN Benefits

Your DIRECTV Limited Warranty provides certain remedies for this receiver during the stated coverage term. The DIRECTV PROTECTION PLAN provides comprehensive coverage for your DIRECTV System, including:

▸ In-home service calls when needed	▸ 24-hour Technical Support
▸ Power surge related repairs	▸ Dish antenna realignments
▸ Cables, switches, and associated wiring throughout home	▸ Replacement of defective equipment (if problem can not be resolved over the phone) *
▸ Defective remote control replacements	▸ All parts and labor for repair

Get all that for just $5.99 a month. This one low monthly fee covers every DIRECTV component and receiver on your account.

Note

*A fee of $49 for standard IRD equipment, $249 for DIRECTV DVR, DIRECTV PLUS DVR or Ultimate TV equipment, $400 for HD equipment, or $1,000 for DIRECTV HD DVR equipment will be charged to your DIRECTV bill if the defective equipment that we are replacing for you is not returned within 30 calendar days. The plan will provide a return box for the defective equipment and even pick up the shipping costs. You'll receive replacement equipment in about 72 hours.

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Sign up for the DIRECTV PROTECTION PLAN Today

If you have standard DIRECTV Receiver(s), visit DIRECTV.com and SIGN IN using the simple steps below or call 1-800-DIRECTV.

1. SIGN IN with your user name and password, or click on the "Register Now" link and go through the easy steps, then continue with Step 2.
2. SELECT Option B, and then click the "Next" button at the bottom of the page.
3. SCROLL down to Step 3 (Add Additional Services) and SELECT "DIRECTV PROTECTION PLAN," then CLICK on the "Next" button.
4. REVIEW your change and CLICK on the "Accept These Changes" button.

If you have a DIRECTV Plus Receiver, DIRECTV DVR, DIRECTV HD Receiver, DIRECTV HD DVR or DIRECTV Receiver with UltimateTV Service, please call 1-800-DIRECTV to sign up.

The DIRECTV PROTECTION PLAN is offered by AIG Warranty Guard and underwritten by New Hampshire Insurance Company on behalf of DIRECTV where authorized by law. Certain limitations apply. Pricing, terms and conditions of the DIRECTV PROTECTION PLAN are subject to change. Full terms and conditions will be mailed to you prior to service billing and are available at DIRECTV.com/protection. (Note: Annual payment option no longer available.)

Protect your investment in quality TV.

Call 1-800-DIRECTV and sign up today!

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FCC Customer Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

DIRECTV, Inc.
2230 E. Imperial Hwy
El Segundo, CA 90245
1-800-DIRECTV

- Trade Name: DIRECTV
- Type of Equipment: DIRECTV Satellite Receiver
- Model Number: HR20

Federal Communications Commission (FCC): This equipment complies with both Part 15 and Part 68 of the FCC rules.

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving satellite dish antenna.

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- Increase the separation between the equipment and the DIRECTV Receiver.
- Connect the equipment into an outlet on a circuit different from that to which the DIRECTV Receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

The user may find the following booklet, prepared by the Federal Communications Commission, helpful: "How to Identify and Resolve Radio and TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington, DC. To meet FCC requirements, only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with Class B limits may be attached to this device. Operation with non-certified peripherals is likely to result in interference to radio and TV reception. To meet FCC requirements, shielded cables are required to connect the device to a personal computer, peripheral, or other Class B certified device.

This equipment complies with Part 68 of the FCC Rules and the requirements adopted by ACTA. On the back of this equipment is a label that contains a product identifier in the format US:AAAEQ##TXXXX. If requested, this information must be provided to your telephone company. This equipment uses the following USOC Jack: RJ11C. A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

The REN is used to determine the number of devices that may connect to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of the RENs should not exceed five (5.0).

To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact your local telephone company. The REN for this product is part of the product identifier that has the format US: AAAEQ##TXXXX. The digits represented by ## are the REN without the decimal point (e.g., 03 is a REN of 0.3).

With proper installation, the only interference this equipment should cause is to eliminate boring TV.

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Use the telephone cord supplied with this equipment to ensure proper operation.

If this DIRECTV Receiver causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance in order for you to make necessary modifications to maintain uninterrupted service. Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If trouble is experienced with this unit, for repair or warranty information, please contact DIRECTV Customer Care at the address and phone number listed below. If the equipment is causing harm to the network, the telephone company may request that you disconnect the equipment until the problem is resolved.

DIRECTV, Inc.
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El Segundo, CA 90245
1-800-DIRECTV

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this DIRECTV Satellite Receiver does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your alarm company, telephone company or a qualified installer.

DO NOT DISASSEMBLE THIS EQUIPMENT. It does not contain any user-serviceable components.

We recommend the installation of an AC surge arrester in the AC outlet to which this equipment is connected. Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources.

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D. Termination

These Terms are effective until terminated. You may terminate these Terms by returning the Receiver to DIRECTV or your supplier. These Terms will terminate automatically without notice if you fail to comply with these Terms or any other agreement between you and DIRECTV. Upon termination you must return the Receiver to DIRECTV or your supplier.

E. Disclaimer

THE SOFTWARE IS (TO THE EXTENT PERMITTED BY LAW) SUPPLIED "AS IS". NEITHER DIRECTV NOR ANY OF ITS LICENSORS EXPRESSLY MAKES OR PASSES ON TO YOU ANY WARRANTY OR REPRESENTATION ON BEHALF OF DIRECTV OR ITS LICENSORS WITH RESPECT TO THE SOFTWARE, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES, EXPRESS OR IMPLIED, INCLUDING (BUT NOT LIMITED TO) ANY IMPLIED WARRANTIES OF MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON-INFRINGEMENT OF THIRD PARTY RIGHTS.

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F. Third Party Beneficiaries

DIRECTV'S LICENSORS AND SUPPLIERS SHALL BE THIRD PARTY BENEFICIARIES OF THESE LICENSE TERMS, AS APPLICABLE.

YOUR USE OF THE RECEIVER CONSTITUTES YOUR ACKNOWLEDGEMENT THAT YOU HAVE READ THESE TERMS AND AGREE TO BE BOUND HEREBY.

G. Additional Information

Certain additional terms and information for the Software and certain third party software (including the text of licenses applicable to any free, open source and other similar software that may be included in the Software) may be found in the DIRECTV Customer Agreement, the DIRECTV website located st www.directv.com, and the GNU website located at www.gnu.org.

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Appendix A: Installation

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77 Using Your IR or RF Remote to Control Your DIRECTV Plus HD DVR

78 Receiving Local “Off-Air” Broadcast Channels

Before You Begin

Your satellite dish antenna must be installed before you can begin following the procedures in this User Guide. (Professional installation is highly recommended.) Your dish needs to be mounted in a position where it has access to the satellite signals, and RG-6 coaxial cables must be run into the room(s) where your receiver(s) will be located. If you choose to install the dish yourself, see the separate instruction manual that came with your satellite dish antenna.

Whether you're having your system professionally installed or handling it yourself, be sure to read over the following few pages to familiarize yourself with some important tips for safety and care.

Hardware Reference

Satellite Dish Antenna
This is your "dish" and related hardware, affixed to your roof or other surface, which picks up the broadcast signals from our satellites.

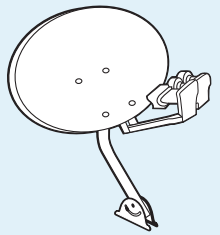
DIRECTV Plus HD DVR (Satellite Receiver)
Your DIRECTV Plus HD DVR picks up the signal from your satellite dish antenna and translates it into viewable TV programming.

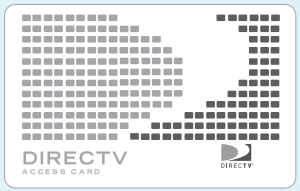
Access Card
Contains information about your DIRECTV service. It must be properly inserted for your DIRECTV Plus HD DVR to work and to activate your programming.

Off-Air Digital Antenna (not included)
This antenna attaches to the back of your DIRECTV Plus HD DVR and is used to receive local "off-air" digital broadcasts.

TIP

You can find additional information and the latest updates at DIRECTV.com





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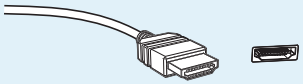
Cables & Connections

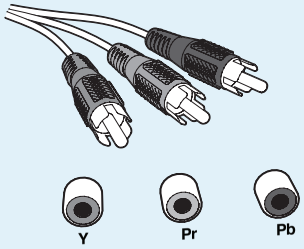


HDMI Jack and Cable

The DIRECTV Plus HD DVR incorporates HDMI™ [or High-Definition Multimedia Interface] technology. HDMI offers a high-quality connection that combines the video and audio signal into a single cable.

The HDMI jack uses HDCP content protection to allow you to view HD programming that has been encoded using the HDCP protection system. For the best access to HD programming at the highest available resolution, connect this to an HDTV that supports HDCP technology.

DVI (Digital Visual Interface) is an older digital connection standard that has been replaced by HDMI and is compatible with HDMI. DVI carries video only. You can also use an HDMI to DVI converter (not included), which also carries video only, so must be used with audio cables to receive the audio signal.



Component Video Output (YPbPr)

The component connector provides high-quality video for your HDTV system. Component video is also referred to as "YPbPr." It uses three separate cables—with connectors colored green, red and blue—one for each component of the HD video signal. A separate audio connection is also required, using either Digital Audio Optical cable or the audio portion of an A/V cable.

Digital Audio Outputs (Optical Jack and Cable)

The Digital Audio Optical cable provides the best quality audio. The jack and cable use light to send digital audio data to A/V receivers equipped to receive and interpret it. The jack and cable (cable not included) must be aligned before plugging in, and may be covered by protective caps, which must be removed before making connections. Use caution when handling optical cables: They are delicate!

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S-Video Jack and Cable

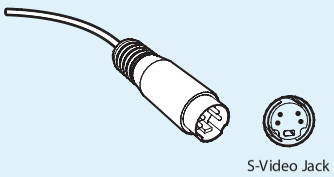
S-Video jacks and cables provide the best non-HD picture quality. You will still need to connect the left and right audio cables to the TV, or optical audio cable to your stereo, because the S-Video cable only carries the picture signal, not sound. A separate audio connection is also required, using either Digital Audio Optical cable or the audio portion of an A/V cable.

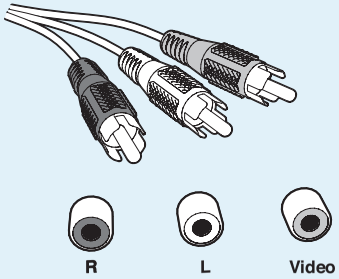
Audio/Video (A/V) Jack and Cable

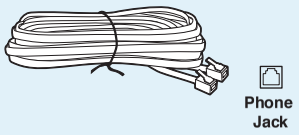
Audio/Video (A/V) cables provide very good picture quality and stereo sound. The video cable should be used if you don't have HDMI, component or S-Video cables, or your TV does not have HDMI, component or S-Video jacks. The audio cable may be used if you have connected your TV with S-Video or Component cables, which don't provide audio signals. The DIRECTV Receiver's A/V jacks are color coded (yellow for video, red for right audio and white for left audio). If your TV has only one input for audio (mono), connect it to the left (white) audio jack on the DIRECTV Receiver.

Telephone Jack and Cord

The telephone line cord connects your DIRECTV Plus HD DVR to a land-based telephone line. The phone line connection is used to periodically call DIRECTV. This connection is required for sports package subscriptions and for purchasing Pay Per View movies and events. You will need an RJ11-type modulator jack (the most common type of phone jack). Note: Do not connect your receiver to a digital PBX phone system — doing so may permanently damage your equipment and void your warranty.







Note: Not all cables come with your digital satellite receiver; you may need to purchase additional cables, depending on your setup.

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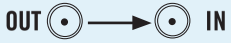
TIP

When working with cables, be sure to connect corresponding outputs and inputs (Video out to Video in, Right Audio out to Right Audio in, etc.). Never connect an IN to an IN or an OUT to an OUT.



All A/V jacks and inputs are color coded. Always match the color of the plug to the same color of the jack.

Everybody wants to be connected.

Choose Your Setup

There are several ways to connect your DIRECTV System to match your particular equipment setup and to gain optimum signal quality. The basic steps are as follows:

- Connect the satellite dish cable to your DIRECTV Plus HD DVR.
- Connect the audio and video outputs of your DIRECTV Plus HD DVR to your TV or VCR.
- If you connected the DIRECTV Plus HD DVR to a VCR, connect the VCR to your TV.
- Connect the DIRECTV Plus HD DVR to a telephone line.
- Plug in all power cords.

This section gives detailed instructions on the types of connections you can make, depending on the equipment you have, in order to get the best picture and sound quality. Note that the back panels of your TV and other equipment may not exactly match those illustrated.

Connecting Your DIRECTV Plus HD DVR to your TV or VCR

Depending on the inputs on the back of your TV or VCR, you have the following options for connecting your DIRECTV Plus HD DVR:

- S-Video
- Digital Audio (optical)
- Analog Audio
- HDMI
- YPbPr Video

These connections are described on the following pages.

Important

Due to restrictions imposed by copyright holders, certain programming may include content protection measures that may restrict viewing in high-definition and/or recording with certain consumer electronics equipment attached to the receiver. Please contact the manufacturer of such equipment for additional information.

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Making the Video Connections

Choose one of the following connections:

- **Best (HD Video and Digital Audio):** Connect the HDMI cables to the HDMI jacks on the DIRECTV Plus HD DVR and your TV. HDMI cables also carry digital audio, so you do not need to make a separate audio connection, unless you would like to use other audio outputs; for example, if you want to connect your DIRECTV Plus HD DVR to a stereo or home theater system. Note: HDMI cable is not included with the HD Receiver.
- **Better (HD Video):** Connect one end of the Component (YPbPr) video cables to the COMPONENT OUT video jacks on the DIRECTV Plus HD DVR. Connect the other end of the component video cable to the component input on your TV, making sure to correctly match the red, green and blue connectors. You will need to connect audio separately.
- **Good (Non-HD):** Connect one end of the S-Video cables to the S-VIDEO OUT jacks on the DIRECTV Plus HD DVR. Connect the other end to the S-Video input on your TV. Note: The S-Video cable will not provide an HD signal to your TV.
- **Not recommended (Non-HD):** You can use RCA connectors to connect your DIRECTV Plus HD DVR to your TV, but it is not recommended. To get the best quality of image, use one of the above methods. However, if your TV does not support S-Video, component or HDMI connections, connect one end of the RCA cable (usually with a yellow plug) to the VIDEO OUT jack on the DIRECTV Plus HD DVR. Connect the other end to the video input on your TV.

Important

To obtain optimum picture quality, make sure the receiver is connected directly to the TV. Connecting the receiver to the TV through a VCR or DVD recorder is known to yield less than optimum picture quality, particularly when viewing copy-protected programming.

TIP

To switch between watching your VCR and watching video from your DIRECTV Plus HD DVR, you may need to program the INPUT key on your DIRECTV Remote. (See page 74 for info.) Some TVs also have a MENU button that allows you to change the video source using an onscreen menu. If you have trouble changing the video source, refer to the instructions that came with your TV.

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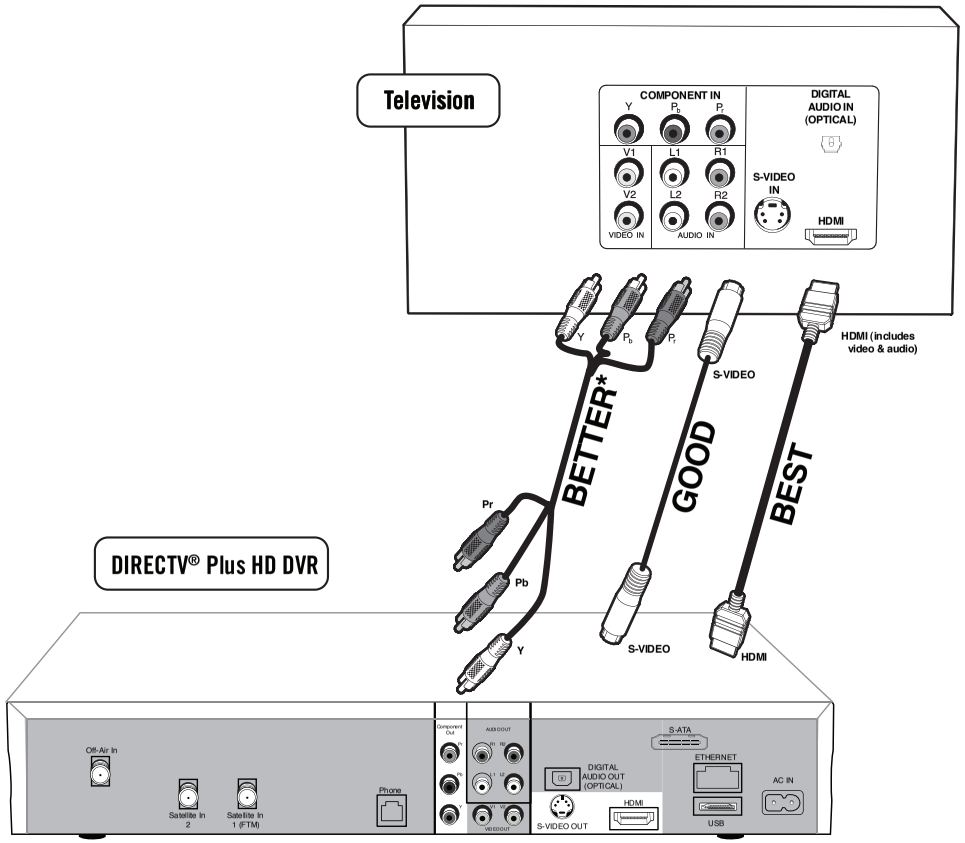
Connect Video Cables –

The back panels of your equipment may not look exactly like those illustrated.



* Note: Do not confuse the component YPbPr cable with a standard Audio/Video (RCA-type) cable. Observe the Red, Green, Blue color-coding. You will not get HD video if you use the Video Out connector on your

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Making the Audio Connections

- **Best:** If you connected your DIRECTV Plus HD DVR to your TV with HDMI cables you do not need to make a separate audio connection, unless you would like to use other audio outputs; for example, if you want to connect your DIRECTV Plus HD DVR to a stereo or home theater system. Note: HDMI cable is not included with the DIRECTV Plus HD DVR.
- **Best 2:** You may also receive digital audio by connecting an Optical Audio cable from the DIGITAL AUDIO OUT (OPTICAL) jack on your DIRECTV Plus HD DVR to a DIGITAL AUDIO IN (OPTICAL) jack on your TV. This output can also be used if you wish to listen to audio on a stereo or home theater system, even if you are already using an HDMI cable for audio on your TV. Note: Optical Audio cable is not included with the DIRECTV Plus HD DVR.
- **Good:** For analog audio, connect the white (L) and red (R) RCA-type cables from the DIRECTV Plus HD DVR to your TV.

If you used an HDMI cable to hook up video, you can skip this section.

Note

If your TV only has one audio input jack use AUDIO L (white) jack on the back of the DIRECTV Receiver to make the connection.

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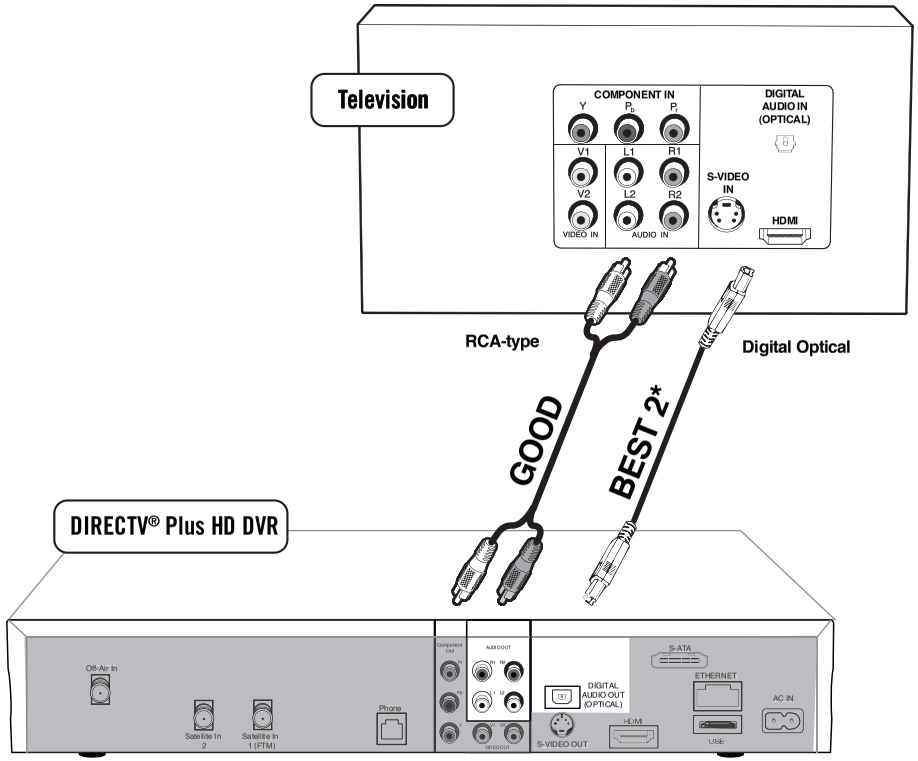
Connect Audio Cables –

The back panels of your equipment may not look exactly like those illustrated.



*** NOTE: For best audio quality on your DIRECTV Plus HD DVR, use the HDMI cable for audio and video. (See "Making the Video Connections.")**

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Making the Basic Connections

1) Connect the DIRECTV Plus HD DVR to the Satellite Dish via FTM (Frequency Translation Module). Depending on the type of network connection you are using, you may have to connect the RG-6 RF coaxial cable from your FTM to the jack labeled SATELLITE IN on the back of the DIRECTV Plus HD DVR. Some systems may instead make this connection to a cable entry point in your house. Your DIRECTV installer will make the appropriate connection.

   Note: Some configurations may ship with a Broadband Converter (BBC) instead of an FTM.

2) **Optional:** Connect the Off-air antenna to the DIRECTV Plus HD DVR. Do this by connecting the off-air antenna to the jack labeled OFF-AIR IN on your DIRECTV Plus HD DVR. When you go through the Guided Setup process, be sure to select the Satellite & Antenna button when you reach the Satellite Dish & Off-Air Antenna screen.

3) Connect the DIRECTV Plus HD DVR to land-based telephone line. Plug one end of the telephone cord into a phone jack on your wall (or into a phone splitter that is plugged into a phone jack) and the other end into the PHONE JACK on the back of the DIRECTV Plus HD DVR.

4) Plug all power cords into electrical sockets.

You're almost done!

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Connect Other Cables –

The back panels of your equipment may not look exactly like those illustrated.

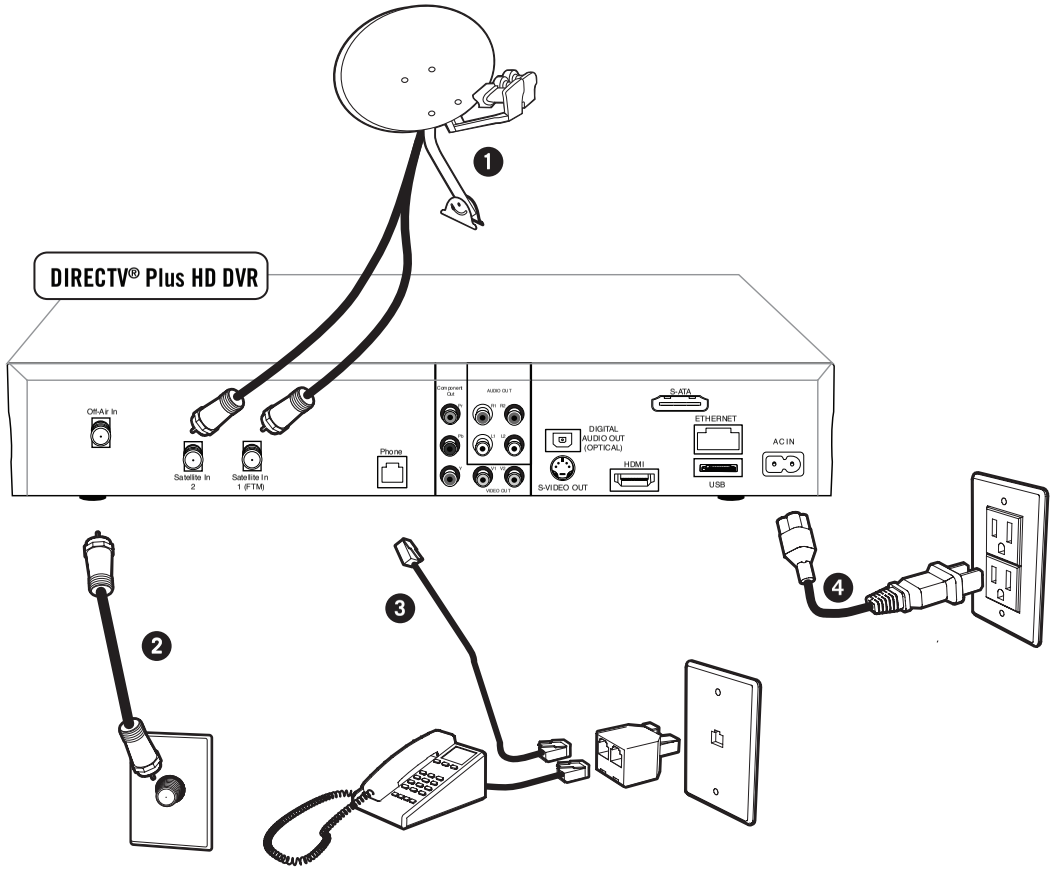
While you're looking at the back of your DIRECTV Plus HD DVR, write down the serial number, receiver ID and model number. You'll need them later.

Serial #

Receiver ID

Model #

(Copy these numbers to page 33 along with your other purchase information)



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Guided Setup

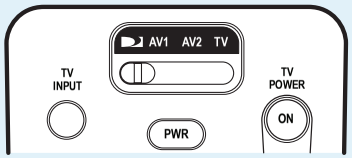
Now that your equipment is all hooked up and plugged in, you're ready to complete setup to begin enjoying your DIRECTV service.

1) Make sure the MODE switch at the top of the remote control is set to DIRECTV, which is the far-left position.
2) Press TV POWER ON. The DIRECTV Plus HD DVR will turn on.
3) The first screen will allow you to select a language. Using the arrow keys on the remote control, move to the language you prefer and press SELECT.
4) You will see a Welcome screen.

HDTV Settings in Guided Setup

Several screens in the Guided Setup process are related to HDTV:

- TV Ratio Screen: This screen lets you select your TV's aspect ratio: 4:3 or 16:9.
- TV Resolutions Screen: As you select each resolution, an onscreen message asks if you can still see the screen properly. If you can, press the INFO key. If not, the unsupported resolution is turned off after a few seconds. If you turn on Native mode, the receiver will automatically adjust resolution to match the resolution of individual TV programs as they are tuned.
- Primary Local Network: If you've chosen to set up both your Satellite Dish and Off-Air Antenna, you will see this screen near the end of Guided Setup. The receiver will use the ZIP code you enter on this screen to determine what locally broadcast digital stations are available to you. Setting up a Secondary Local Network is optional; it can be useful if you are located between two network areas and intend to receive programming from both via your off-air antenna.



TIP

You may decide to set up, change or adjust some of the settings later. When you're ready, press MENU on your remote, press SELECT on Settings then select Setup.

The User Guide that came with your TV will help you set the HDTV settings properly.

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Guided Setup is as simple as following the onscreen instructions. When in doubt, we've usually highlighted the most likely choice for you.

Now, let us lead the way...

Simply follow the onscreen directions to complete your setup functions. If you've installed your satellite dish and system yourself, you'll be guided though various functions for optimizing your signal and setup — including positioning your dish and a system test. If you had your system professionally installed, these functions already have been completed.

After these setup procedures are complete, you'll see a message onscreen that says, "Acquiring Satellite Info," as the receiver gathers information from the satellite for the onscreen program guide.

Next, you'll be given the opportunity to program your remote to control other equipment such as your TV and/or DVD player. Just follow the screen instructions and you'll be ready to watch in no time!

Activate Your DIRECTV® Service

Once all the setup processes are complete, all that's left to do is activate your DIRECTV service. Before you make the call, be sure to:

- Have on hand your service address, social security number and a valid major credit card.
- Note your access card and receiver ID numbers. (You may have written them down earlier in this chapter.)

When you're ready, just call 1-800-DIRECTV (1-800-347-3288) and pick the programming package that's right for you and subscribe to DVR Service.

Important

In order to protect your TV screen from burn-in (a side-effect caused when a stationary image is displayed for too long), the DIRECTV Receiver interface automatically goes into screen saver mode, and displays a black screen with a moving logo when no key is pressed for 5 minutes or more while a stationary image is displayed on the TV. To dismiss the screen saver and return to what you were doing, press any key on the remote. Burn-in may cause permanent damage to your TV and DIRECTV is not liable for any damages that may be caused to your TV.

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Programming Your Remote Control

You may have already programmed your remote control during Guided Setup, but if you didn't, or you want to make changes, or you've acquired some new equipment, follow these instructions. You can program the DIRECTV Remote Control to operate your TV power, volume and mute, additional equipment such as a DVD, VCR, stereo, or second TV or DIRECTV Receiver.

1) Press MENU to display the Quick Menu.
2) Highlight Settings and press SELECT.
3) Highlight Setup and press SELECT.
4) Press SELECT on Remote in the left menu.
5) Follow the onscreen instructions to program your remote for your TV or additional equipment (AV1 and AV2).

Once your remote is programmed to work with your TV, the VOL and MUTE key control the TV regardless of the MODE slide switch position. If you would like to change the VOL and MUTE to work with other audio equipment, such as a stereo, you can. When you program the remote for the audio equipment, onscreen instructions will direct you on how to do this.

Factory Defaults

To reset the remote control and clear all but DIRECTV mode, follow these steps:

1) Point the remote away from your DIRECTV Receiver and components. Press and hold MUTE and SELECT until the light above the slide switch on the remote flashes twice (about 5 seconds).
2) Enter 9-8-1. The light on the remote will flash twice, indicating you have cleared AV1, AV2 and TV modes.

If you programmed your Remote Control during Guided Setup, you can skip this section.

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Using Your IR or RF Remote to Control Your DIRECTV Plus HD DVR

You can skip this section if you do not have an RF Remote Antenna and RF Capable Remote (sold separately) or you setup your RF Remote Control during Guided Setup. This information is included here if you skipped that part, or if you want to change your Remote setup later.

The remote control included with your DIRECTV Plus HD DVR works using IR (infrared). IR is typical of remotes you are already familiar with from other remotes you may have—the remote must be pointed at the device for it to respond. If you have an RF Remote Antenna and RF Capable Remote, you can use them to operate the DIRECTV Plus HD DVR without having to point your remote directly at it, such as when the receiver is installed in a cabinet, or you use the remote from another room in your house. The operating range of an RF Remote is up to 200 feet, with some possible decrease due to weak batteries or obstacles such as walls in your house. Once programmed, your RF Remote will be addressed to only one receiver, so will not affect other receivers in your home.

To setup an RF Capable Remote, press the MENU key, press SELECT on *Settings*, then select *Remote* from the left menu. Press SELECT on the *IR/RF Setup* button. Follow the onscreen instructions to configure your remote.

A remote that can go through walls? That's right. It's the next best thing to X-ray vision.

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Receiving Local "Off-Air" Broadcast Channels

The DIRECTV Plus HD DVR can receive both satellite and locally transmitted, off-air broadcast channels, and will display these local channels in the Guide. In order to receive off-air channels, attach an off-air antenna to the OFF-AIR IN as instructed in the "Choose Your Setup" section starting on page 65. During the Guided Setup process, be sure to select the Satellite & Antenna button when you reach the Satellite Dish & Off-Air Antenna screen and follow the onscreen instructions.

If you didn't setup an off-air antenna during the guided setup, you must enter your location into the receiver using the Local Network Area screens in order to receive Program Guide information for local off-air broadcast channels. When you enter your ZIP code, if there is more than one network area available, your receiver will show your options. Pick the one closest to you as your primary network area. In some cases, there may be more than two cities displayed. You may decide to also enter a secondary local network if more than one is available to you, but this is optional.

To scan for off-air channels and set up the local network areas after Guided Setup, do the following:

1. Press MENU.
2. Press SELECT on Settings in the Quick Menu.
3. Select Setup in the Quick Menu.
4. Select Sat & Ant from the options on the left menu.
5. Press SELECT on the Antenna Setup button. If you have not selected your local networks yet, select the Local Networks button and follow the instructions until you are done.
6. Select the Scan for Channels button to have the receiver scan local off-air frequencies.

When the receiver has finished scanning for channels, you are given the chance to edit local off-air channels to remove channels from the Guide that you don't watch, or those that have poor reception.

NOTE: Your reception will vary by geographic location. In other words: Some areas get better reception than others!

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Appendix B:

High-Def 101

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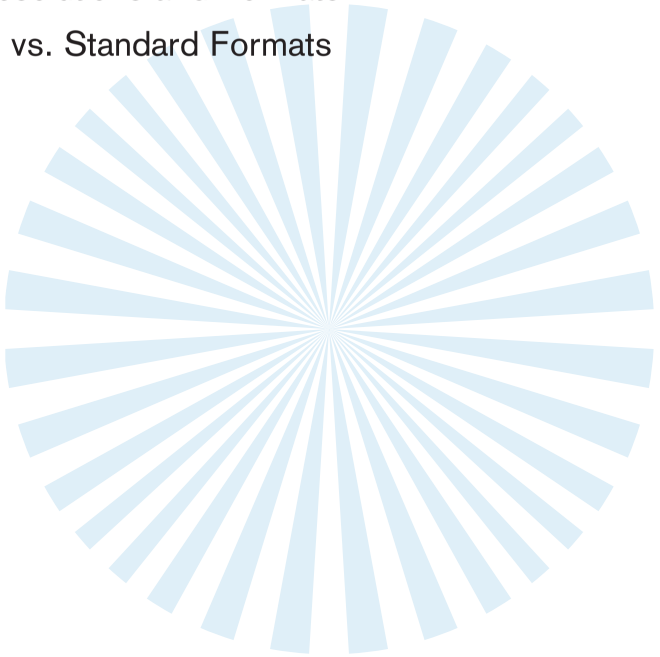
85 Supported Resolutions and Formats

86 Wide-Screen vs. Standard Formats



About High-Definition

This section describes HD, and how it differs from regular TV, including helpful information about high-definition and your DIRECTV Plus HD DVR.

Types of TV Broadcasts

Analog TV is the type of TV broadcast you may be most familiar with. If you get your broadcasts via a standard off-air antenna, it's the type you receive, and most broadcasts from local cable companies are analog as well.

Digital TV is a newer system for broadcasting TV signals delivering higher quality audio and video. "Digital TV" refers to a television that can receive and display digital images. Following are terms you might see used regarding Digital TV broadcasts. Although your DIRECTV Plus HD DVR is a "true" HD receiver, the type of TV or monitor you plug it into (SD, ED, or HD) can affect the resolution of the TV picture you see. See "Resolutions and Interlacing" on page 79, for an explanation of display resolutions.

- **SD** (standard definition) is digital TV that offers a picture quality that is better than older analog televisions. SDTV displays images at a resolution of 480i.
- **ED** (enhanced definition) is digital TV that can display a higher resolution picture than SDTV. An EDTV can display at 480i or 480p.
- **HD** (high definition) is digital TV that can provide the highest quality picture, at resolutions 1080i, 720p, 480p, or 480i.

You can find additional information and the latest updates at DIRECTV.com

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To get the best-quality TV picture, you need an HD TV to go with your DIRECTV Plus HD DVR.

Resolution & Interlacing

Two elements that determine the quality of a TV picture are:

Resolution

If you've ever looked very closely at your TV, you have noticed the picture is actually made up of many lines scanning across the screen. The set of lines that make up a complete image are called a "frame." For TV equipment and broadcasts, resolution is defined by the number of horizontal lines displayed to make up each frame of a video image. The more lines of resolution used to compose each frame, the more detailed and sharp the picture. Standard TV resolution uses 480 horizontal lines to make up each video frame; HDTV uses either 720 or 1080 lines to compose each frame.

Interlaced & Progressive

The term "interlacing" refers to whether each of those frames contains all of the lines of image, or every other line. Interlaced signals take every other line from 2 frames, each lasting 1/60th of a second, and combine them into one frame lasting 1/30th of a second. In this way, interlacing tricks the eye into thinking it's seeing twice the resolution that's actually being displayed. In non-interlaced video, referred to as "progressive scan" video, frames are displayed every 1/60th of a second containing all of the lines of video information.

The specifications for video resolution are usually stated by giving the number of horizontal lines (480, 720 or 1080, as described above) followed by either the letter "i" (for interlaced) or "p" (for progressive scan). Most standard TV broadcasts are 480i; some DVDs and non-HDTV digital broadcasts use 480p. Specification for HDTV broadcasts and equipment requires either 1080i or 720p.

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Aspect Ratio

In addition to resolution and interlacing, a television picture is also defined by its aspect ratio—referring to the shape of the screen as defined by the ratio of the screen's width to its height.

For analog TV, the aspect ratio is 4 units wide by 3 units high (4:3). This is the familiar shape of conventional TVs—slightly wider than they are tall. SDTV and EDTV can be either 4:3 or 16:9. For HDTV broadcasts, the aspect ratio is 16:9—nearly twice as wide as it is tall. This is, not coincidentally, more like the shape of movies shown in theaters, which makes HD an ideal format for viewing movies on TV. You will be able to see much of what is captured on film, but lost on an SDTV display.

Screen Formats

What if you're watching a nearly square-shaped 4:3 broadcast on a 16:9 TV, or vice versa? The DIRECTV Plus HD DVR lets you choose from a variety of screen formats to deal with those scenarios. You can set up your preferences for format during Guided Setup and change them at any time.

See the next pages for your options.

With an optional off-air antenna, you can also watch locally broadcast HD channels on your DIRECTV Plus HD DVR.

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The FORMAT key, made simple: Keep pressing the FORMAT key until you like the picture on your TV.

Options For Changing Video Output

In order to optimize the display of programs on your television, you may occasionally need to change the resolution and/or screen format. There are two keys that can be used to make changes: the FORMAT key on the remote control and the RES (Resolution) key on the front panel of the DIRECTV Plus HD DVR.

FORMAT key on Your Remote

Pressing this key will cycle the resolutions that you've indicated in System Setup as being supported by your TV. In addition, it will cycle the three available screen formats in conjunction with each individual resolution. Available screen formats are based on the TV Aspect Ratio you set in System Setup. With each press, an onscreen message will let you know what the current resolution/format setting is. For example, if you indicated that your TV supports only 1080i, 480i and 480p and it is a 16:9 television, and Native is turned off*, the cycle of settings for the FORMAT key are as follows:

1st press: 480i/Stretch
2nd press: 480i/Letter box
3rd press: 480i/Crop
4th press: 480p/Stretch
5th press: 480p/Letter box
6th press: 480p/Crop
7th press: 1080i/Stretch
8th press: 1080i/Letter box
9th press: 1080i/Crop
10th press: repeat cycle

* *In Native mode, the receiver automatically adjusts resolutions to match the resolution of individual TV programs as they are tuned.*

If your TV supports all formats (1080i, 720p, 480i and 480p), then your cycle would also include 720p. If Native is turned on, the FORMAT key cycles through Stretch, Letter and Crop for the current TV program's native resolution. The FORMAT key allows you to easily cycle all resolution and format settings

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with a single key until the picture displays the way you like it. Navigating menus to modify settings is not necessary.

If pressing this key causes a loss of video and audio, continue to press it until the picture returns. (Wait a second between presses to allow the Receiver to change the resolution.) This can happen if your settings include a resolution that your TV doesn't support. To correct this, you'll need to change your resolution setting: Press MENU, select Settings, then Setup, then HDTV in the left side menu. Press SELECT on the Resolution tab and mark or unmark the TV Resolutions to display the resolutions supported by your television.

Resolution (RES) Key on Receiver Front Panel

This key is used to cycle all available resolutions on your DIRECTV Plus HD DVR. It does not cycle format settings. If video and audio are not appearing, it may be because the current resolution setting is not supported by your television. By pressing this key, you can check all available resolutions to see if that solves the problem. The lights next to the RES key on the front panel will light below the resolution to which the receiver is set; they will change with each key press.

Resolution made simple: Set the resolution to the highest number that your TV supports by pressing the RES key.

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Supported Resolutions and Formats

The tables on this page show the formats and resolutions supported by the DIRECTV Plus HD DVR, the interaction with the FORMAT key, the outputs supported by the different types of connections, and other, related information. See the beginning of this chapter for a full description of screen resolutions, formats, and Native mode. The DIRECTV Plus HD DVR supports broadcasts in the display formats shown in the following table:

Selected Resolutions	**Remote Control FORMAT Key Cycle** (➠ = (Press FORMAT key)
480i, 480p	480i/Stretch ➠ 480i/Letter ➠ 480i/Crop ➠ 480p/Stretch ➠ 480p/Letter ➠ 480p/Crop
720p	720p/Stretch ➠ 720p/Letter ➠ 720p/Crop
1080i	1080i/Stretch ➠ 1080i/Letter ➠ 1080i/Crop
480i, 480p, 720p	480i/Stretch ➠ 480i/Letter ➠ 480i/Crop ➠ 480p/Stretch ➠ 480p/Letter ➠ 480p/Crop ➠ 720p/Stretch ➠ 720p/Letter ➠ 720p/Crop
480i, 480p, 1080i	480i/Stretch ➠ 480i/Letter ➠ 480i/Crop ➠ 480p/Stretch ➠ 480p/Letter ➠ 480p/Crop ➠ 1080i/Stretch ➠ 1080i/Letter ➠ 1080i/Crop
720p, 1080i	720p/Stretch ➠ 720p/Letter ➠ 720p/Crop ➠ 1080i/Stretch ➠ 1080i/Letter ➠ 1080i/Crop
All selected (480i, 480p, 720p, 1080i)	480i/Stretch ➠ 480i/Letter ➠ 480i/Crop ➠ 480p/Stretch ➠ 480p/Letter ➠ 480p/Crop ➠ 720p/Stretch ➠ 720p/Letter ➠ 720p/Crop ➠ 1080i/Stretch ➠ 1080i/Letter ➠ 1080i/Crop
Native	Native/Stretch ➠ Native/Letter ➠ Native/Crop
NOTE: This chart is for 4:3 TV Ratio. For 16:9 TV ratio, "Pillar" box is displayed instead of "Letter".	

The following table shows the resolutions that can be output from each type of connection:

Output Connection	Available Resolutions
YPbPr	1080i, 720p, 480i, 480p
HDMI	1080i, 720p, 480i, 480p
S-Video	480i
Video (RCA Type/Yellow)	480i

NOTES: 720p and 1080i are HD formats. 480i and 480p are not.
S-Video and RCA outputs display all resolutions as 480i.

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Wide-Screen vs. Standard Formats

4:3 TVs Showing 16:9 programs

For a standard 4:3 TV showing a wide screen program, the program is too wide to fit on the screen. To alleviate this, choose:

Letterbox

With this format, the 16:9 image is shrunk until the entire width of the program fits on your TV. Since the aspect ratio of the program is maintained, the image is no longer tall enough to fill your screen, so gray or black bars are seen at the top and bottom of the screen. To change the bar color, press MENU, then select Settings. Select Setup, then select the Display menu. Highlight the Preferences tab and press SELECT, then set Bar Color option to the desired color. See your TV owner manual for information on the best color for your set.

Stretch

In the Stretch setting, instead of adding bars to the top and bottom, the 16:9 program image is stretched vertically until it's tall enough to fill the screen. Your entire screen will be full, but the program images are stretched to compensate.

Crop

This format crops (cuts off) the left and right portions of the 16:9 frame so it fits the 4:3 screen.

Only Letterbox shows the entire original 16:9 image without distortion.

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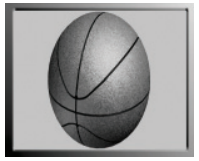
You can watch HD programs on a standard TV, but you won't really be watching HD.

If your display is a 4:3 format TV or monitor, your format options include these:			
For 4:3 program signals:	Fills TV Screen		
For 16:9 program signals:	Letterbox	 Stretch	Crop

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16:9 TVs Showing 4:3 programs

For a wide screen 16:9 TV showing a standard 4:3 TV program, the program is too tall to fit the screen. Your choices here include:

Pillar box

Here the 4:3 image is shrunk until the entire height of the program fits on your TV. Since the aspect ratio is maintained, the image is no longer wide enough to fill the screen, so gray or black bars are seen at the left and right edges. To change the bar color, access the HDTV screen in System Setup as described above, then select the desired bar color option under the TV Ratio tab.

Stretch

In this setting, instead of adding bars to the sides, the 4:3 program image is stretched horizontally until it's wide enough to fill the screen. Your entire screen will be full, but the images are a little stretched to compensate.

Crop

This format crops (cuts off) the top and bottom of a 4:3 frame, keeping the 4:3 ratio intact.

Only Pillar Box shows the entire original 4:3 image without distortion.

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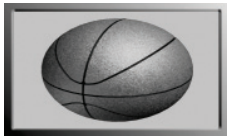
Fortunately, you can still watch regular TV on your HD TV. Isn't it nice to be one step ahead of the rest of the world?

If your display is a 16:9 format TV or monitor, your format options include these:	
For 4:3 program signals:	Pillar Box  Stretch Crop
For 16:9 program signals:	Fills TV Screen

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The Fine Print

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Icon Reference

Arrow Icons

Indicate that a show's start or end time is earlier or later than is visible in the Guide program cell.

LEFT and RIGHT arrows on the remote offer special functionality.

Objects are scrollable above or below the visible window.

UP and DOWN arrows on the receiver front panel offer special functionality.

Scheduler Icons

Shows a Record has been set for a future program.

Indicates a Record has been set for all episodes of an ongoing program.

Indicates a program is currently recording.

Shows an Record has been set for matching programs in a "*Find by*."

Indicates a present or future pay per view program has been scheduled for purchase.

Other Icons

Denotes one or more alternate audio tracks available for a program.

Denotes that no alternate audio tracks available.

Indicates one or more new messages are in the Inbox.

Indicates no new messages are in the Inbox.

Shows that Parental Control limits are currently "locked."

Shows that limits are temporarily unlocked.

Shows that there are no current limits imposed.

Indicates a rating level or channel that is blocked via Parental Controls.

Indicates a pay per view program is available as an All Day Ticket replay.

Indicates program shown in letterbox format.

Denotes an error condition has occurred.